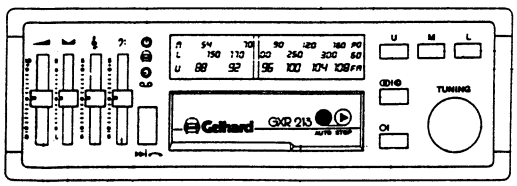
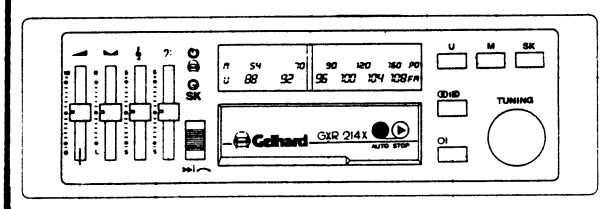
SERVICE MANUAL

IN-DASH FM/MW/LW/MPX CAR RADIO WITH CASSETTE STEREO PLAYER

GXR 213/214X/215/216X



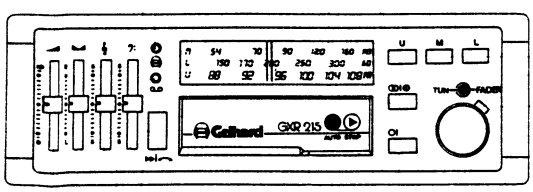
GXR 213



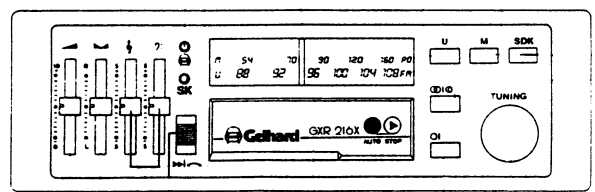
GXR 214X

GXR 215

OUTPUT STAGE IC LA 4496



GXR 216X



Gelhard
West Germany

CONTENTS

- ELECTRICAL SPECIFICATIONS 2
- P.C. BOARD TOP & BOTTOM VIEW GXR 213 5
  GXR 214X 6
  GXR 215 7
  GXR 216X 8
- SCHEMATIC DIAGRAM GXR 213 9
  GXR 214X 10
  GXR 215 11
  GXR 216X 12
- SPECIFIC ELECTRICAL PARTS CONTRAST 13
- ELECTRICAL PARTS LIST GXR 213 14
  GXR 214X 20
  GXR 215 27
  GXR 216X 34
- EXPLODED VIEW GXR 213/GXR 214X 42
  GXR 215 43
  GXR 216X 44
- PARTS LIST FOR EXPLODED VIEW 45

ELECTRICAL SPECIFICATIONS

		MODELS	GXR 213		GXR 214X	
ITEM	CONDITION	UNIT	NOMINAL	LIMIT	NOMINAL	LIMIT
GENERAL SPEC						
OPERATING VOLTAGE		V	13.8±0.2	11~16	14.4	11~16
OUTPUT POWER (10% T.H.D)		W	5.5	4	5.5	4
LOAD IMPEDANCE		OHM	4~8		4~16	
ANT IMPEDANCE		OHM	75		75	
DIMENSIONS		M/M				
BODY			179x135x51		179x135x51	
ESCUTCHEON			189x10x59		189x10x59	
WEIGHT		KG	1.2		1.2	
FM SPEC						
FREQUENCY RANGE LOW		MHz	87.35	±0.15	87.35	±0.15
HIGH			108.3	+0.2-0.4	108.3	+0.2-0.4
INTERMEDIATE FREQUENCY		MHz	10.7	±0.3	10.7	±0.3
(30dB S/N)	90MHz	μV				
	98MHz	μV	2	4	2	4
	106MHz	μV				
S/N RATIO	98MHz	dB	60	50	60	54
IMAGE REJECTION RATIO	106MHz	dB	56	50	56	50
I.F. REJECTION RATIO	90MHz	dB	65	55	65	55
T.H.D at 1KHz	98MHz	%	0.5	2	0.5	2
FREQUENCY RESPONSE (-3dB)	98MHz	Hz	80~10K	120~8K	80~10K	120~8K
STEREO SEPARATION at 1KHz	98MHz	dB	26	20	26	20
S.K. SENSITIVITY	98MHz	μV	—	—	4	8
SIGNAL ATTENUATION ON S.K	98MHz	dB	—	—	46	40

		MODELS	GXR-215		GXR-216X	
ITEM	CONDITION	UNIT	NOMINAL	LIMIT	NOMINAL	LIMIT
GENERAL SPEC						
OPERATING VOLTAGE		V	13.8±0.2	11~16	13.8±0.2	11~16
OUTPUT POWER (10% T.H.D)		W	18	16	5.5	4.5
LOAD IMPEDANCE		OHM	4~8		4~8	
ANT IMPEDANCE		OHM	75		75	
DIMENSIONS		M/M				
BODY			179x135x51		179x135x51	
ESCUTCHEON			189x10x59		189x10x59	
WEIGHT		KG	1.3		1.2	
FM SPEC						
FREQUENCY RANGE LOW		MHz	87.35	87.35 ±0.15	87.35	87.35 ±0.15
HIGH			108.3	108.3 +0.2-0.4	108.3	108.3 +0.2-0.4
INTERMEDIATE FREQUENCY		MHz	10.7	±0.3	10.7	±0.3
(30dB S/N)	90MHz	μV				
	98MHz	μV	2	4	2	4
	106MHz	μV				
S/N RATIO	98MHz	dB	60	50	60	50
IMAGE REJECTION RATIO	106MHz	dB	56	50	56	50
I.F. REJECTION RATIO	90MHz	dB	65	55	65	55
T.H.D at 1KHz	98MHz	%	0.5	2	0.5	2
FREQUENCY RESPONSE (-3dB)	98MHz	Hz	80~10K	120~8K	80~10K	120~8K
STEREO SEPARATION at 1KHz	98MHz	dB	26	20	26	20
S.K. SENSITIVITY	98MHz	μV	—	—	4	8
SIGNAL ATTENUATION ON S.K	98MHz	dB	—	—	46	40

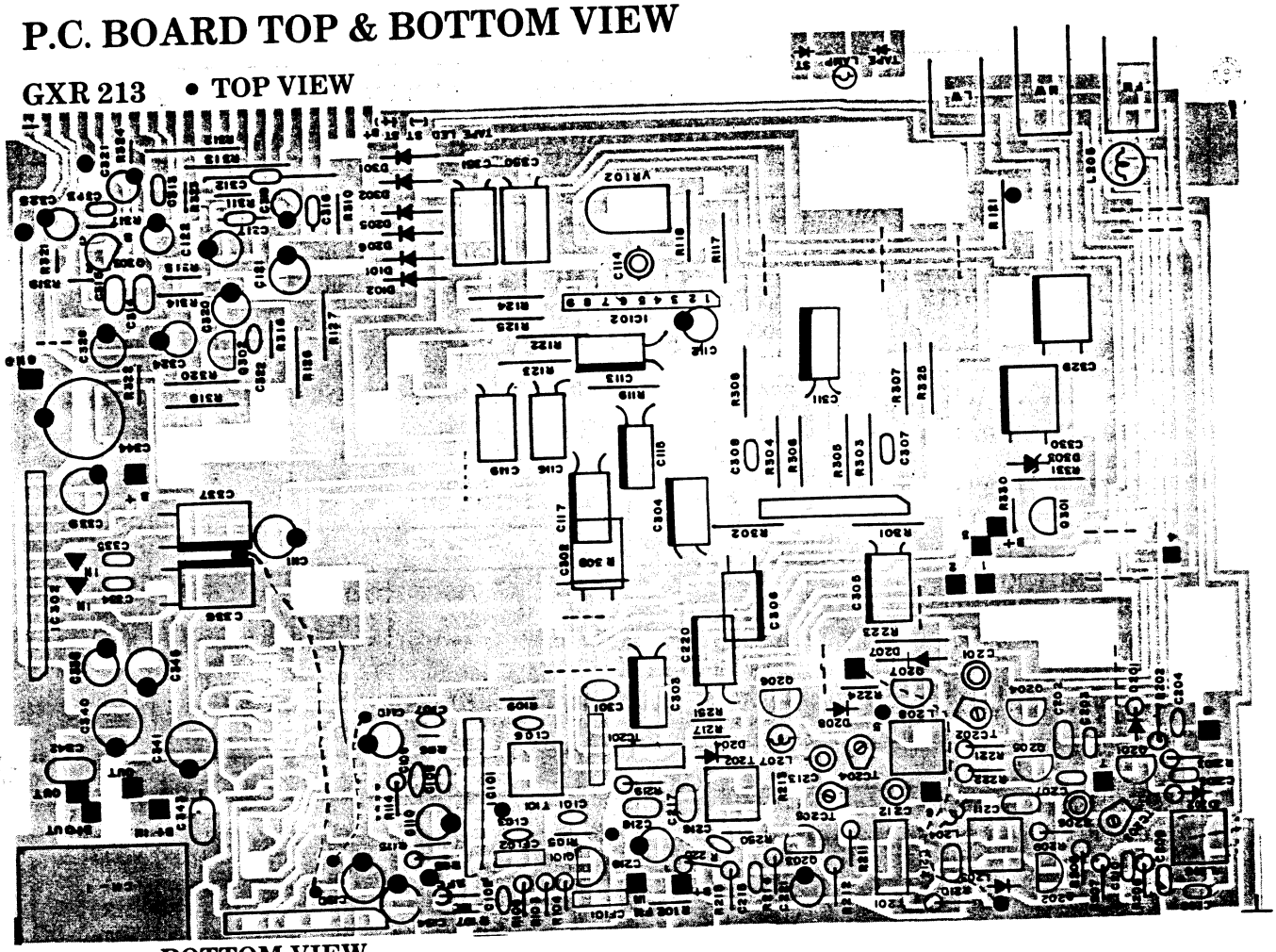
ELECTRICAL SPECIFICATIONS

		MODELS	GXR 213		GXR 214X	
ITEM	CONDITION	UNIT	NOMINAL	LIMIT	NOMINAL	LIMIT
GENERAL SPEC						
FREQUENCY RANGE LOW		k Hz	510	±5	510	±5
HIGH			1660	±10	1660	±10
INTERMEDIATE FREQUENCY		k Hz	455	±5	455	±5
USABLE SENSITIVITY	600kHz					
(20dB S/N)	1000kHz	μV	16	50	16	50
	1400kHz					
S/N RATIO	1000kHz	dB	45	40	45	40
IMAGE REJECTION RATIO	1400kHz	dB	60	54	60	54
I.F. REJECTION RATIO	600kHz	dB	45	35	45	35
T.H.D. at 1kHz	1000kHz	%	1.2	3	1.2	3
FREQUENCY RESPONSE (-6dB)	1000kHz	Hz	50~2.5K	80~2K	50~2.5K	80~2K
L.W. SPEC						
FREQUENCY RANGE		kHz	140	140±2	—	—
USABLE SENSITIVITY	150kHz		320	320±4	—	—
(20dB S/N)	220kHz	μV	63	158		
	300kHz					
IMAGE REJECTION RATIO	220kHz	dB	80	70	—	—
I.F. REJECTION RATIO	220kHz	dB	80	70	—	—
TAPE. SPEC						
TAPE SPEED DEVIATION	MTT-111	%	+1.5	+3, -1	+1.5	+3, -1
WOW & FLUTTER (RMS)	MTT-111	%	0.1	0.35	0.1	0.35
S/N RATIO	MTT-112B	dB	45	39	45	39
T.H.D	MTT-118	%	1.2	3	1.2	3
SEPARATION	MTT-141	dB	26	20	26	20
CROSS TALK	MTT-121	dB	35	30	35	30
FREQUENCY RESPONSE 125Hz	MTT-217	dB	±0.5	+3, -6	0	+3, -6
1kHz			0	0	0	
6.3kHz			0.5	+3, -6	0	+3, -6

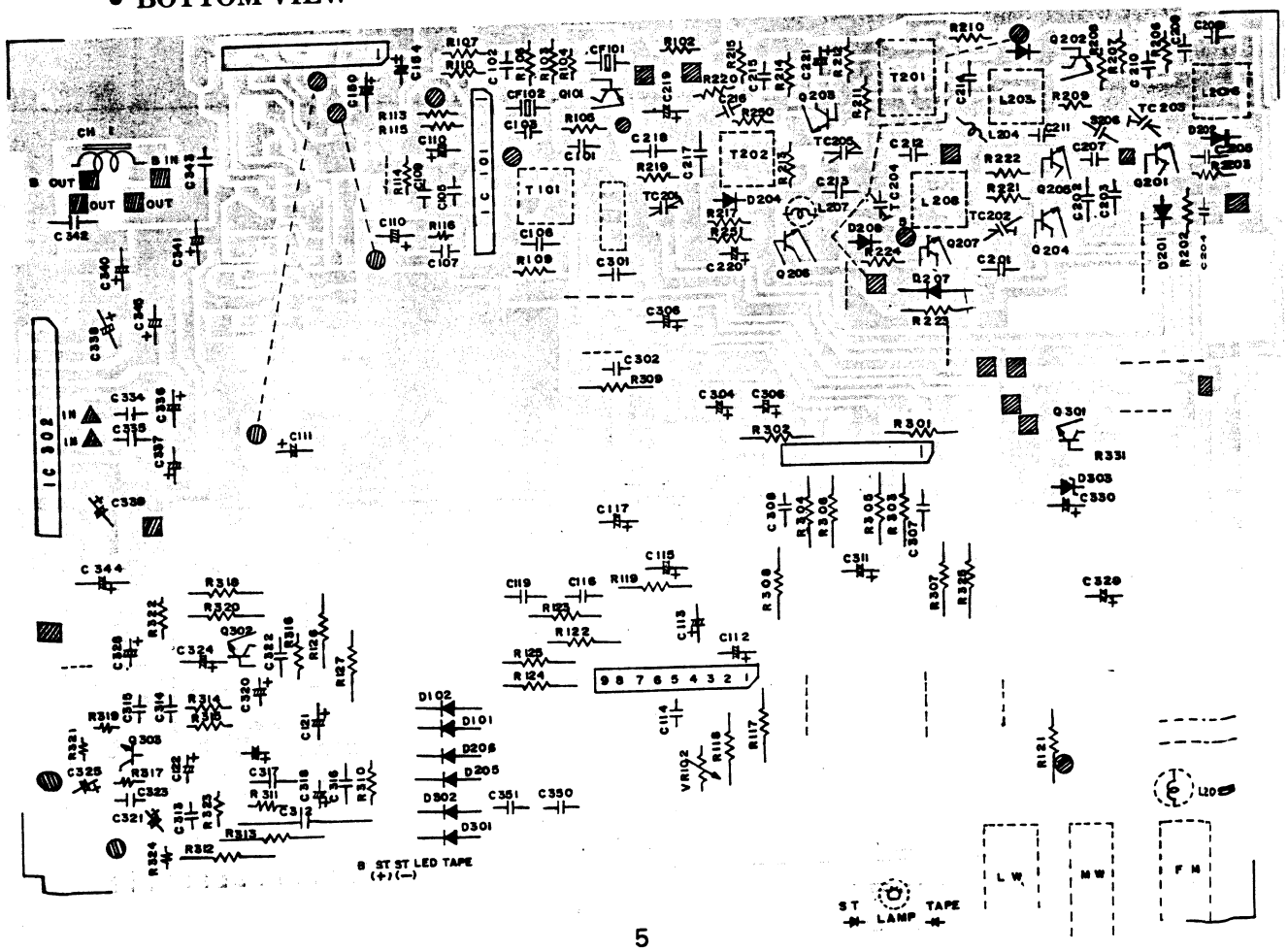
		MODELS	GXR 215		GXR 216X	
ITEM	CONDITION	UNIT	NOMINAL	LIMIT	NOMINAL	LIMIT
GENERAL SPEC						
FREQUENCY RANGE LOW		k Hz	510	±5	510	±5
HIGH			1660	±10	1660	±10
INTERMEDIATE FREQUENCY		k Hz	455	±5	455	±5
USABLE SENSITIVITY	600kHz	μV				
(20dB S/N)	1000kHz		16	50	16	50
	1400kHz					
S/N RATIO	1000kHz	dB	45	40	45	40
IMAGE REJECTION RATIO	1400kHz	dB	60	54	60	54
I.F. REJECTION RATIO	600kHz	dB	45	35	45	35
T.H.D. at 1kHz	1000kHz	%	1.2	3	1.2	3
FREQUENCY RESPONSE (-6dB)	1000kHz	Hz	50~2.5K	80~2K	50~2.5K	80~2K
L.W. SPEC						
FREQUENCY RANGE		kHz	140	140±2	—	—
USABLE SENSITIVITY	150kHz	μV	320	320±4	—	—
(20dB S/N)	220kHz		63	158	—	—
	300kHz					
IMAGE REJECTION RATIO	220kHz	dB	80	70	—	—
I.F. REJECTION RATIO	220kHz	dB	80	70	—	—
TAPE. SPEC						
TAPE SPEED DEVIATION	MTT-111	%	+1.5	+3, -1	+1.5	+3, -1
WOW & FLUTTER (RMS)	MTT-111	%	0.1	0.35	0.1	0.35
S/N RATIO	MTT-1128	dB	45	39	45	39
T.H.D	MTT-118	%	1.2	3	1.2	3
SEPARATION	MTT-141	dB	26	20	26	20
CROSS TALK	MTT-121	dB	35	30	35	30
FREQUENCY RESPONSE 125Hz	MTT-217	dB	±0.5	+3, -6	0	+3, -6
1kHz			0	0	0	0
6.3kHz			0.5	+3, -6	0	+3, -6

P.C. BOARD TOP & BOTTOM VIEW

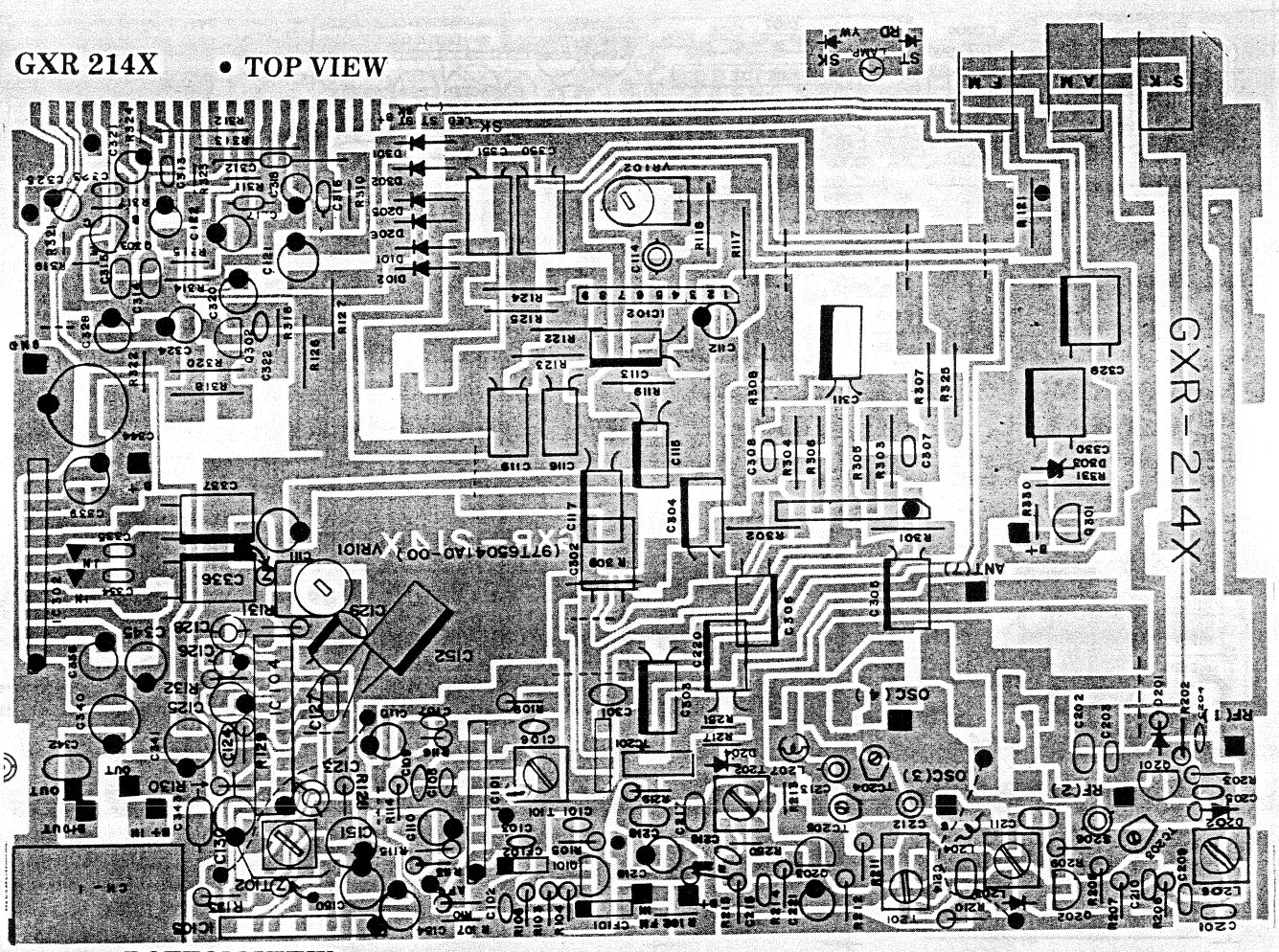
GXR 213 • TOP VIEW



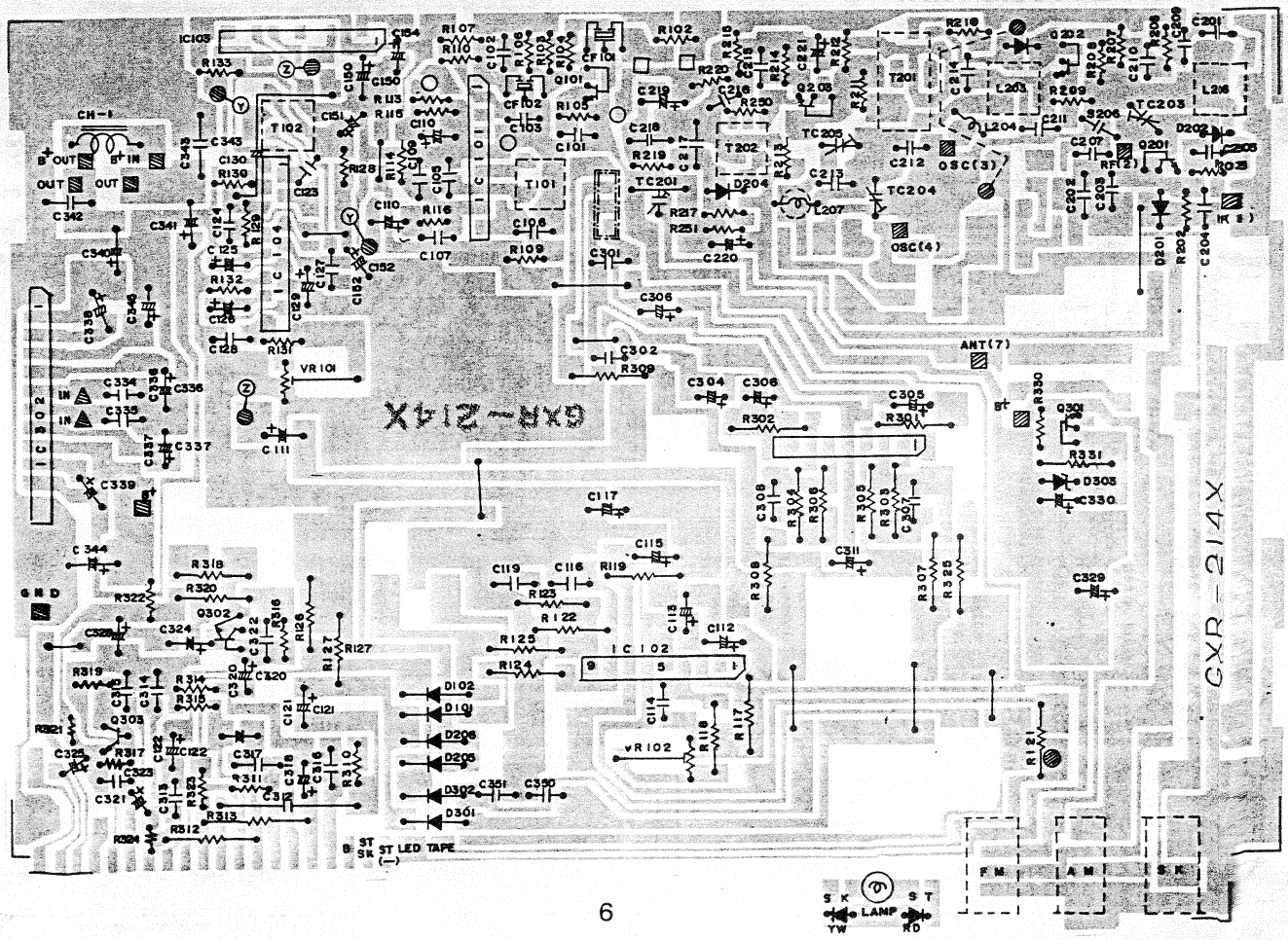
• BOTTOM VIEW



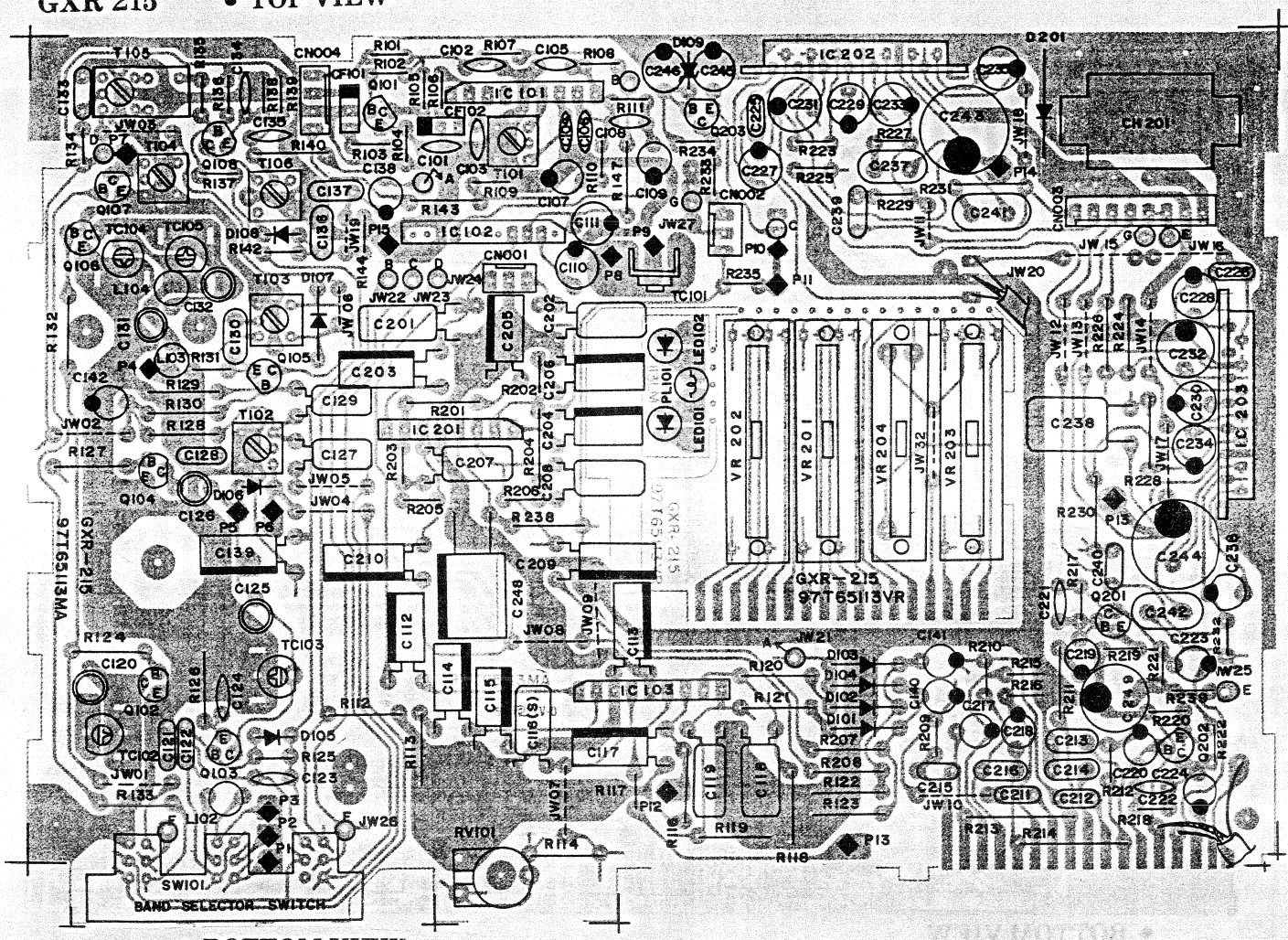
GXR 214X • TOP VIEW



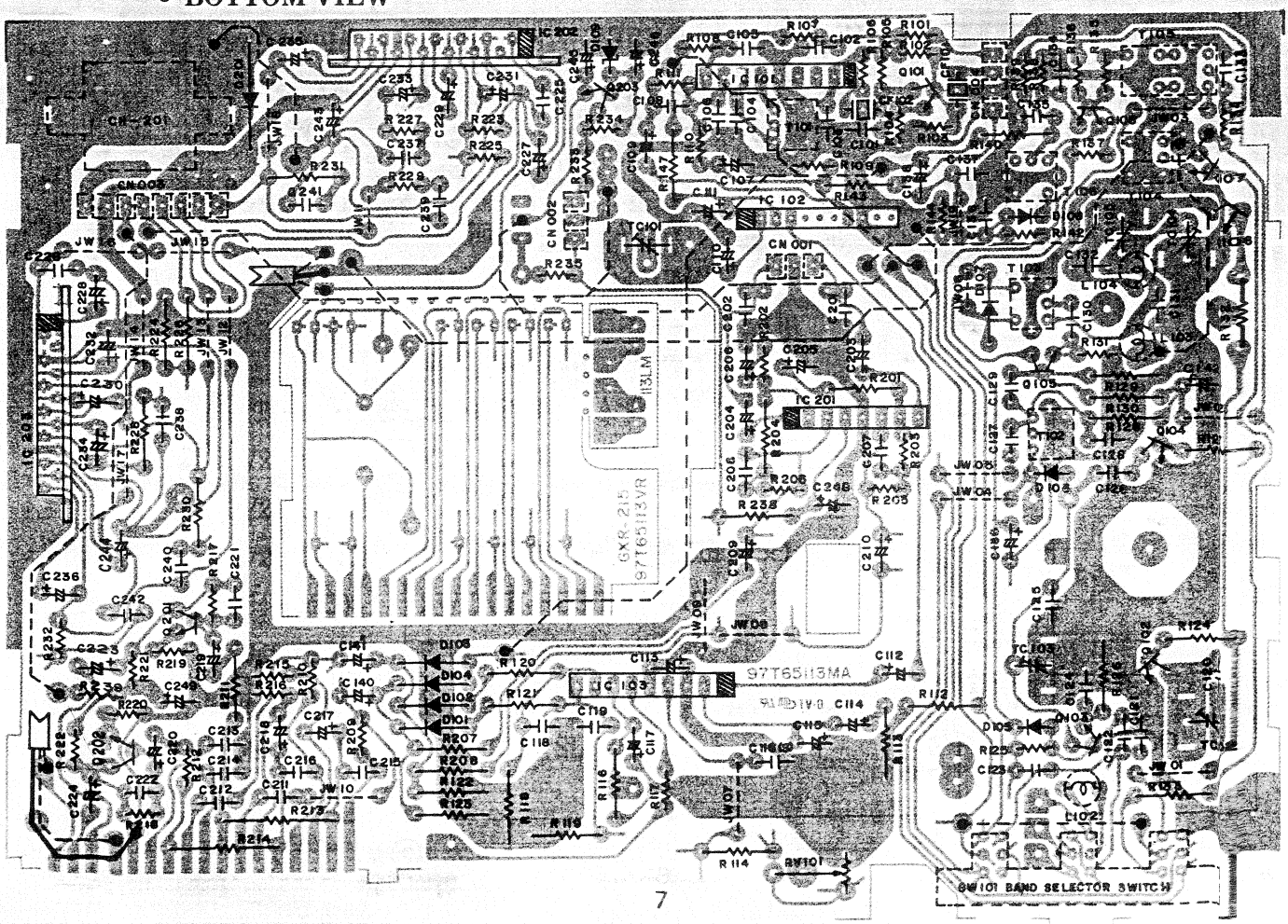
• BOTTOM VIEW



GXR 215 • TOP VIEW



• BOTTOM VIEW

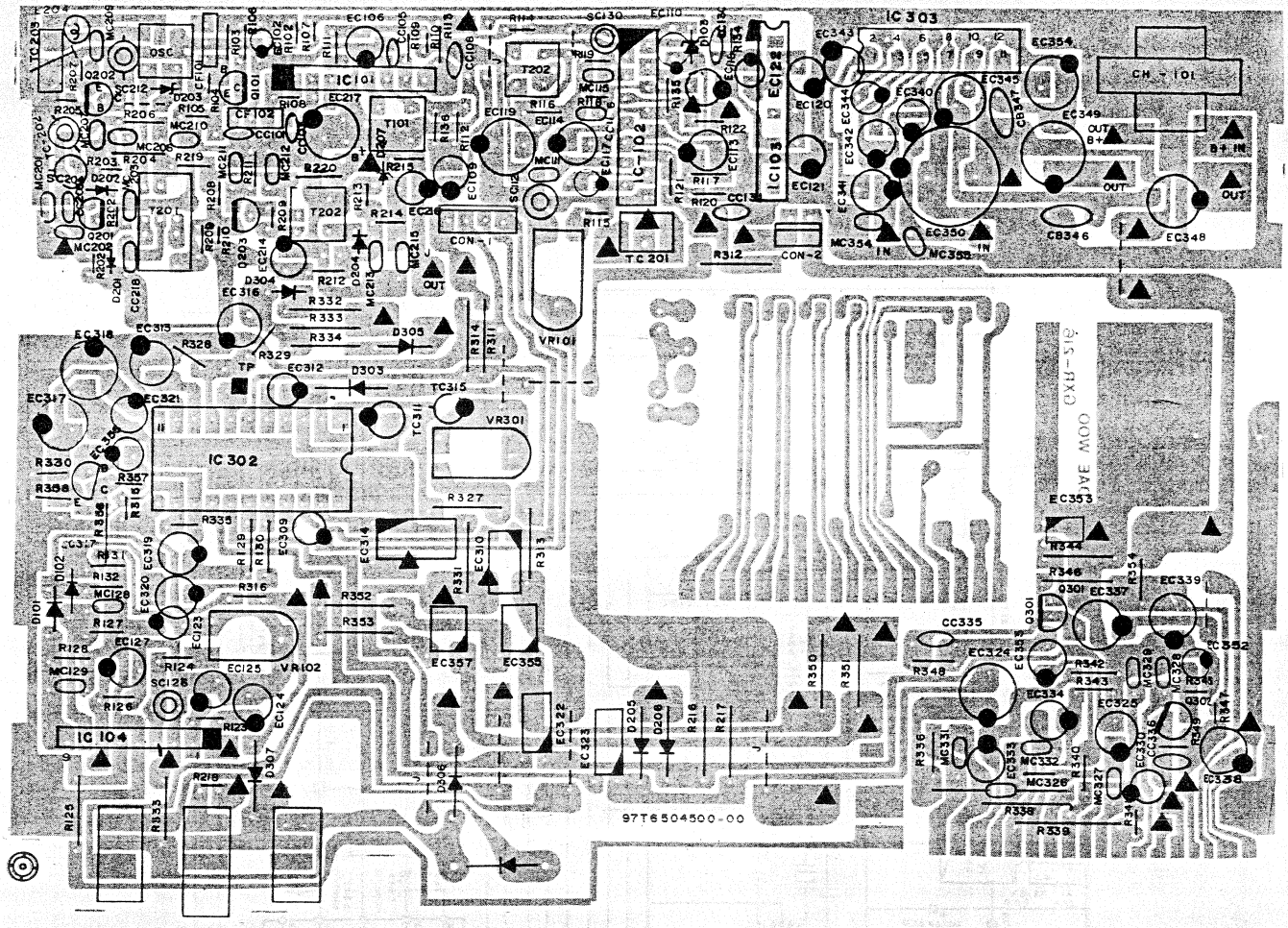


TOP SCREEN

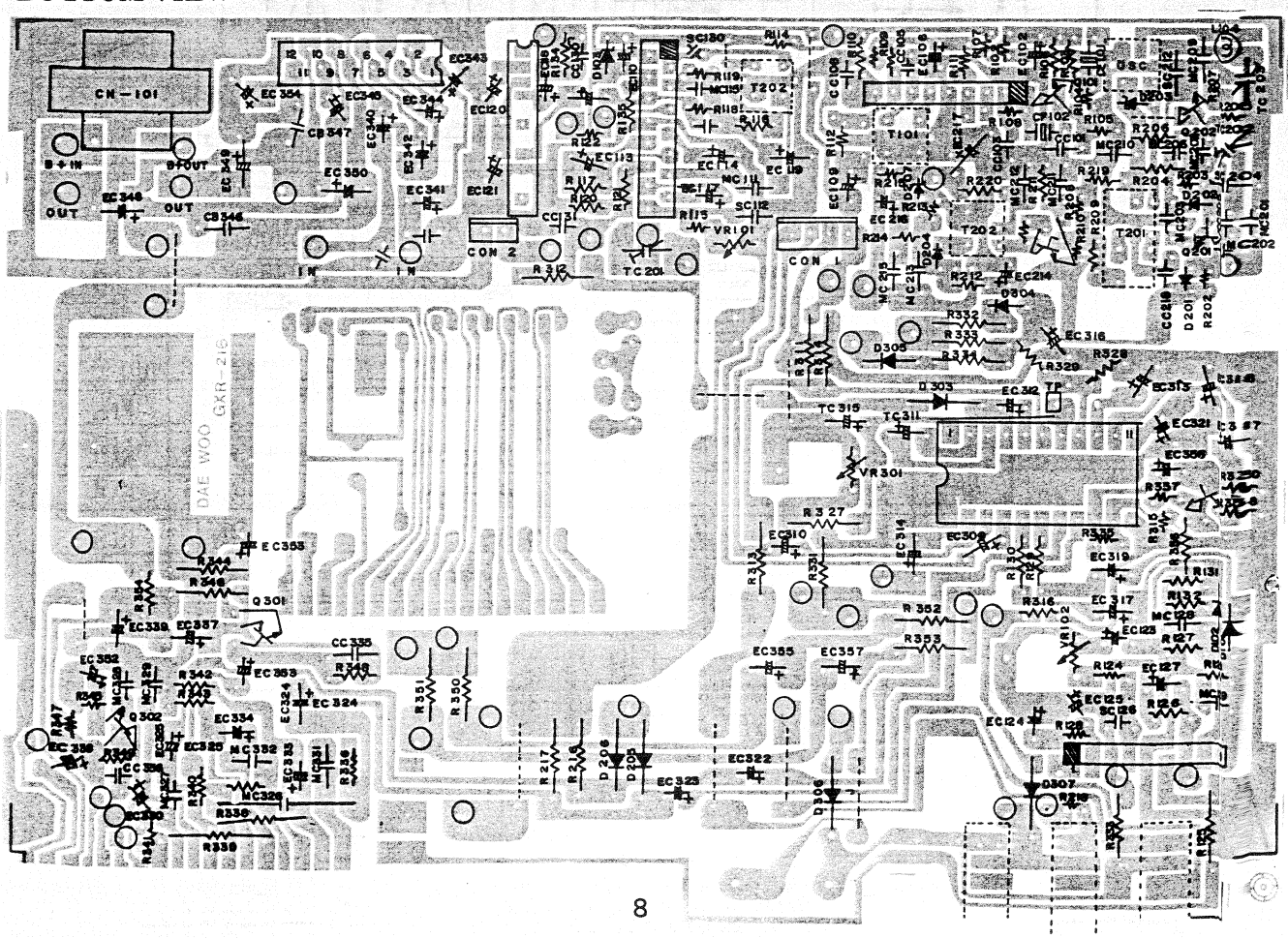
FOR SERVICE MANUAL (BOTTOM VIEW)

BOTTOM

GXR 216X • TOP VIEW

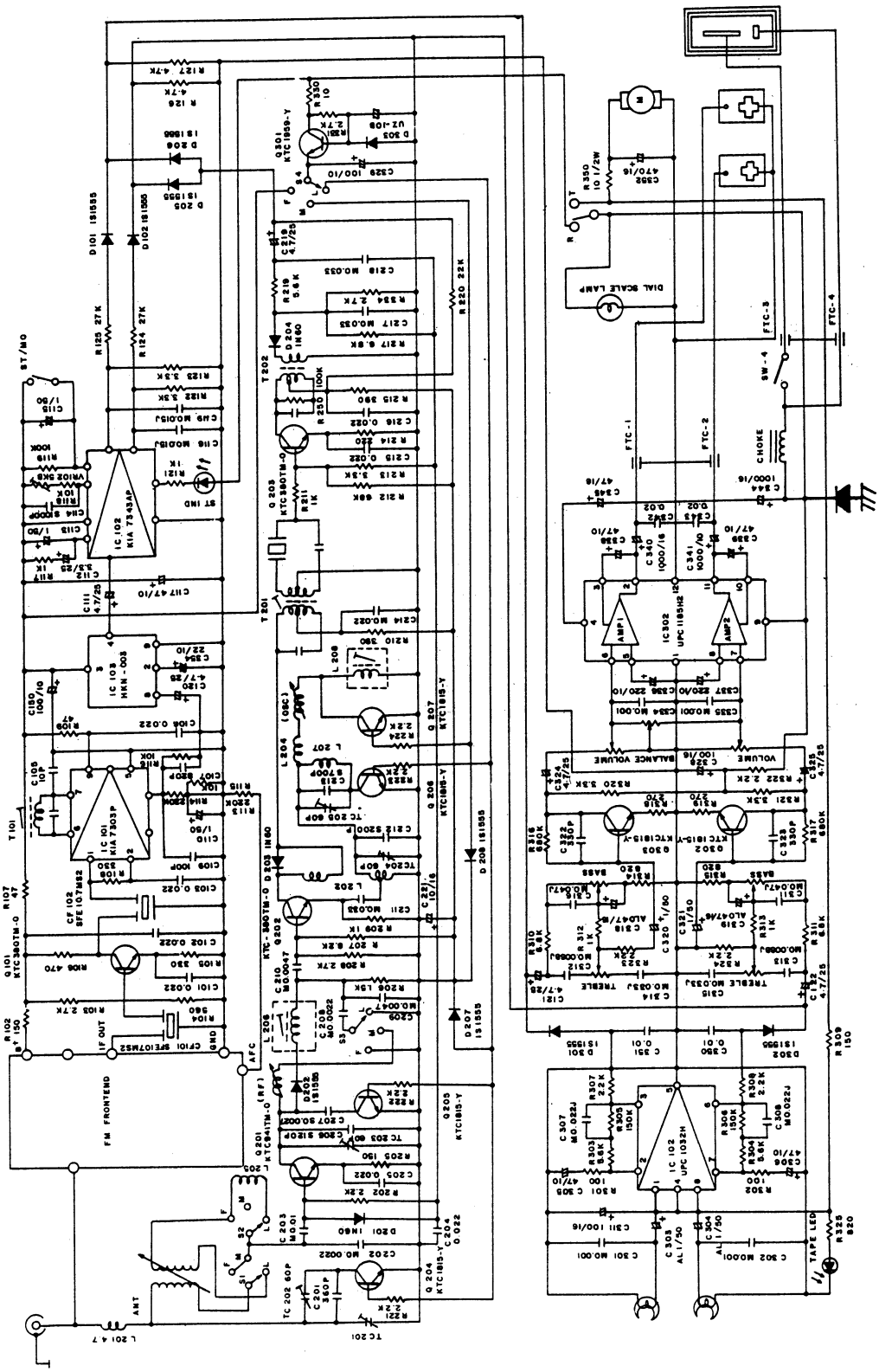


• BOTTOM VIEW

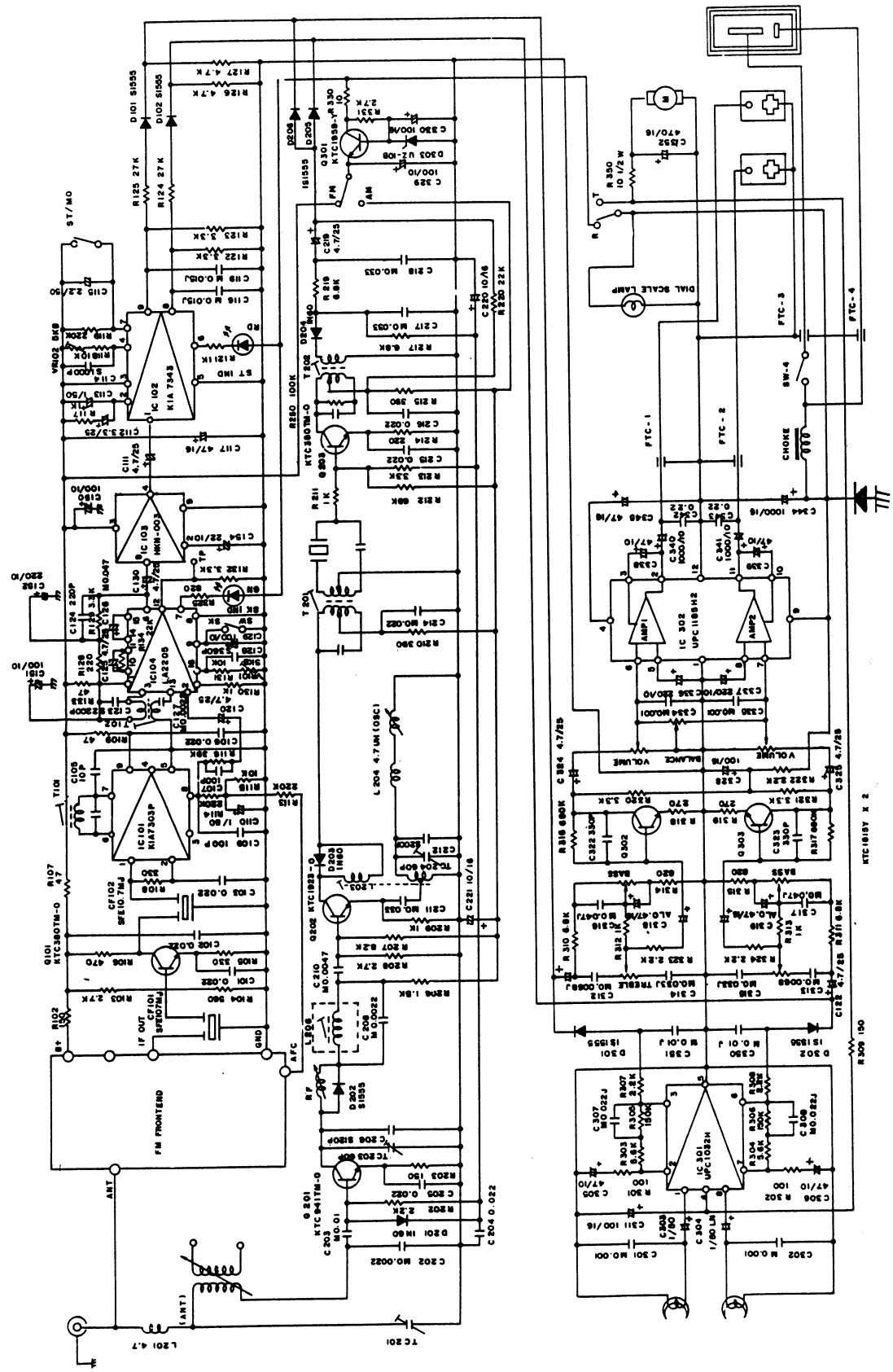


SCHEMATIC DIAGRAMS

GXR 213



GXR 214X



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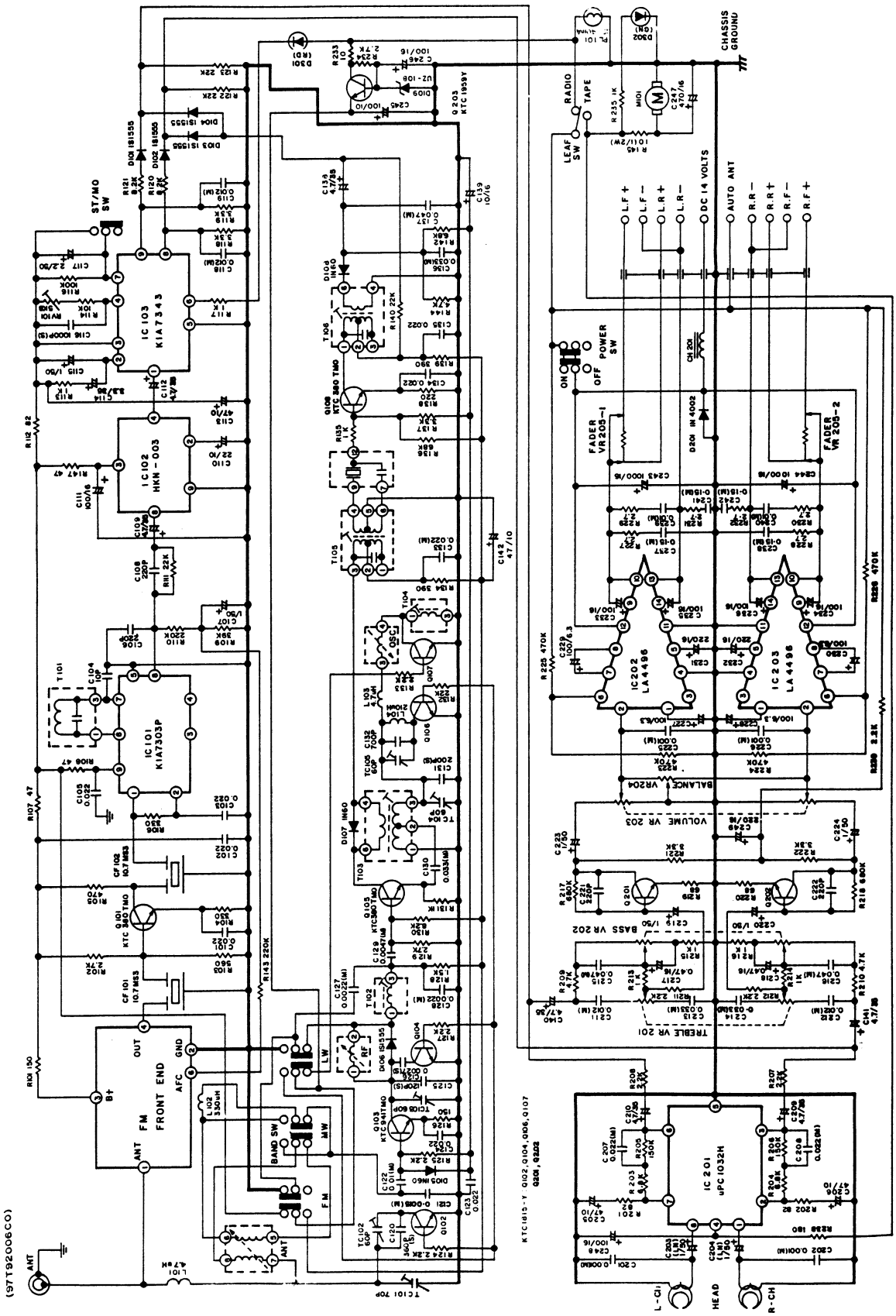
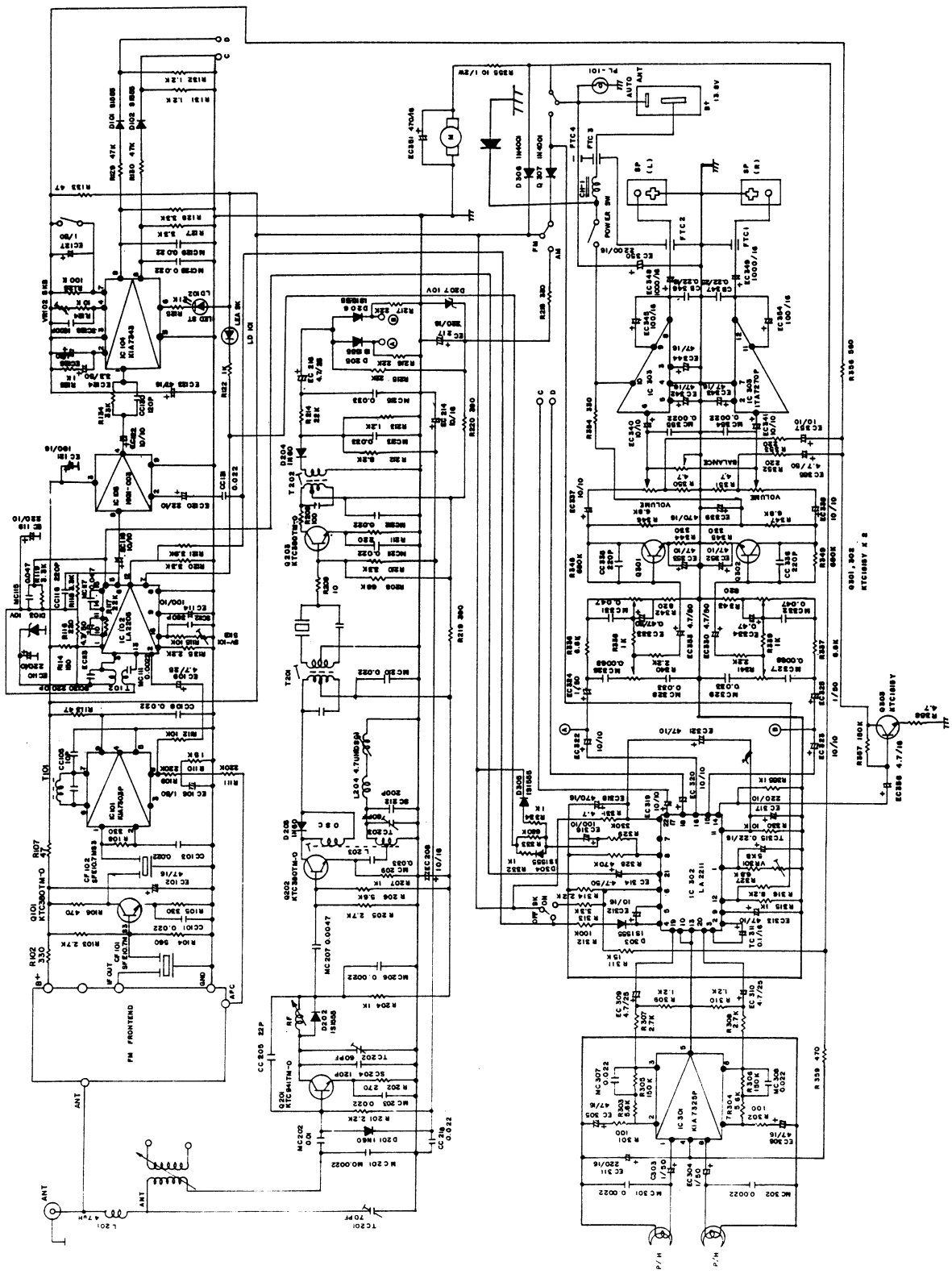


GXR 216X



SPECIFIC ELECTRICAL PARTS CONTRAST

REF. NO	PART NO	DESCRIPTION	Q'TY				REMARK
			213	214X	215	216X	
	5S40202530	SWITCH PUSH SPUJ31 (E3513525M)	1	–	1	–	
	5S40202545	SWITCH PUSH SPUJ31 (E43919 97M)	–	1	–	1	
	1UPC1185H2	IC POWER μPC 1185H2	1	1	–	–	
	1LA 4496	IC POWER LA4496	–	–	2	–	
	1TA7270P	IC POWER TA7270P	–	–	–	1	
	1LA2205---	IC SKLA2205	–	1	–	1	
	1LA2211---	IC D.K LA2211	–	–	–	1	
	DKLG226E--	LED GREEN KLG226E	1	–	1	–	
	DSLC22YY3-	LED AMBER SLC-22YY3	–	1	–	1	
	5V1800413B	V.R. ROTARY K16BK0A -80 OHM×2	–	–	1	–	
	5107FBK322	COIL S.K	–	1	–	1	

GXR 213

ELECTRICAL PARTS LIST

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
CF101	5PSFE107JA	FILTER CERA SFE107MJ-A	1	
CF102	5PSFE107JA	FILTER CERA SFE107MJ-A	1	
C101	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C102	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C103	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C105	CYRH1H100C	C CERA RH 50V 10PF C	1	
C106	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C107	CCYB1H821K	C CERA HIKB 50V 820PF K	1	
C109	CCYB1H101K	C CERA HIKB 50V 100PF K	1	
C110	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C111	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
C112	CEYF1H339A	C ELECTRO 50V 3.3MF SSM	1	
C113	CEYF1H109A	C ELECTRO 50V 1MF 4×7	1	
C114	CSYS1H102J	C STYROL 50V 1000PF J	1	
C115	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C116	CMYM1H153J	C MYLAR 50V 0.015MF J	1	
C117	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
C119	CMYM1H153J	C MYLAR 50V 0.015MF J	1	
C120	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
C121	CEYE1H479A	C ELECTRO 50V 4.7MF 5×11	1	
C122	CEYE1H479A	C ELECTRO 50V 4.7MF 5×11	1	
C150	CEYE1A101A	C ELECTRO 10V 100MF 6.3×11	1	
C201	CSYS1H361J	C STYROL 50V 360PF J	1	
C202	CMYM1H222J	C MYLAR 50V 2200PF J	1	
C203	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
C204	CCYF1H223J	C CERA HIKF 50V 0.022MF Z	1	
C205	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C206	CSYS1H121J	C STYROL 50V 120PF J	1	
C207	CSYS1H272J	C STYROL 50V 2700PF J	1	
00010	CEYE1C471A	C ELECTRO 16V 470MF 10×20	1	
C208	CMYM1H222J	C MYLAR 50V 2200PF J	1	
C209	CMYM1H472J	C MYLAR 50V 0.0047MF J	1	
C210	CMYM1H472J	C MYLAR 50V 0.0047MF J	1	
C211	CMYM1H333J	C STYROL 50V 0.033MF J	1	
C212	CSYS1H201J	C STYROL 50V 200PF J	1	
C213	CSYS1H701J	C STYROL 50V 700PF J	1	
C214	CMYM1H223J	C MYLAR 50V 0.022MF J	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
C215	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C216	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C217	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C218	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C219	CEYE1H479A	C ELECTRO 50V 4.7MF 5×11	1	
C220	CEYE1C100A	C ELECTRO 16V 10MF 5×11	1	
C221	CEYE1C100A	C ELECTRO 16V 10MF 5×11	1	
C301	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C302	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C303	CEYE1H109N	C ELECTRO 50V 1UF LN	1	
C304	CEYE1H109N	C ELECTRO 50V 1UF LN	1	
C305	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
C306	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
C307	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
C308	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
C311	CEYF1C101A	C ELECTRO 16V 100MF 6.3×11	1	
C312	CMYM1H682J	C MYLAR 50V 6800PF J	1	
C313	CMYM1H682J	C MYLAR 50V 6800PF J	1	
C314	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C315	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C316	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
C317	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
C318-	CAYH1C478M	C ALUMINUM H 16V 4.7MF M	1	
C319-	CAYH1C478M	C ALUMINUM H 16V 4.7MF M	1	
C320	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C321	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C322	CCYB1H331K	C CERA HIKB 50V 330PF K	1	
C323	CCYB1H331K	C CERA HIKB 50V 330PF K	1	
C324	CEYE1H479A	C ELECTRO 50V 4.7MF 5×11	1	
C325	CEYE1H479A	C ELECTRO 50V 4.7MF 5×11	1	
C328	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C329	CEYE1A101A	C ELECTRO 10V 100MF 6.3×11	1	
C330	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C334	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C335	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C336	CEYF1A221A	C ELECTRO 10V 220MF 8×8.5	1	
C337	CEYF1A221A	C ELECTRO 10V 220MF 8×8.5	1	
C338	CEYE1C470A	C ELECTRO 16V 47MF 6.3×11	1	
C339	CEYE1C470A	C ELECTRO 16V 47MF 6.3×11	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
C340	CEYF1A102A	C ELECTRO 10V 1000MF 10×20	1	
C341	CEYF1A102A	C ELECTRO 10V 1000MF 10×20	1	
C342	CCYF1E224Z	C CERA HIKF 25V 0.22MF Z	1	
C343	CCYF1E224Z	C CERA HIKF 25V 0.22MF Z	1	
C344	CEYF1C102A	C ELECTRO 16V 1000MF RSM	1	
C345	CEYE1C470A	C ELECTRO 16V 47MF 6.3×11	1	
C350	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
C351	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
R002	RD-4Z101J-	R CARBON FILM 1/4 100 OHM J	1	
R102	RD-4B151J-	R CARBON FILM 1/4 150 OHM J	1	
R103	RD-4B272J-	R CARBON FILM 1/4 2.7K OHM J	1	
R104	RD-4B561J-	R CARBON FILM 1/4 560 OHM J	1	
R105	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R106	RD-4B471J-	R CARBON FILM ELR 1/4 470 OHM J	1	
R107	RD-4B470J-	R CARBON FILM 1/4 47 OHM J	1	
R108	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R109	RD-4B470J-	R CARBON FILM 1/4 47 OHM J	1	
R113	RD-4B224J-	R CARBON FILM 1/4 220K OHM J	1	
R114	RD-4B224J-	R CARBON FILM 1/4 220K OHM J	1	
R115	RD-4B103J-	R CARBON FILM 1/4 10K OHM J	1	
R116	RD-4B103J-	R CARBON FILM 1/4 10K OHM J	1	
R117	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R118	RD-4Z103J-	R CARBON FILM 1/4 10K OHM J	1	
R119	RD-4Z104J-	R CARBON FILM 1/4 100K OHM J	1	
R121	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R122	RD-4Z332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R123	RD-4Z332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R124	RD-4Z273J-	R CARBON FILM 1/4 27K OHM J	1	
R125	RD-4Z273J-	R CARBON FILM 1/4 27K OHM J	1	
R126	RD-4Z472J-	R CARBON FILM 1/4 4.7K OHM J	1	
R127	RD-4Z472J-	R CARBON FILM 1/4 4.7K OHM J	1	
R202	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R203	RD-4B151J-	R CARBON FILM 1/4 150 OHM J	1	
R206	RD-4B152J-	R CARBON FILM 1/4 1.5K OHM J	1	
R207	RD-4B822J-	R CARBON FILM ELR 1/4 8.2K OHM J	1	
R208	RD-4B272J-	R CARBON FILM 1/4 2.7K OHM J	1	
R209	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
R210	RD-4B391J-	R CARBON FILM 1/4 390 OHM J	1	
R211	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R212	RD-4B683J-	R CARBON FILM 1/4 68K OHM J	1	
R213	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R214	RD-4B221J-	R CARBON FILM 1/4 220 OHM J	1	
R215	RD-4B391J-	R CARBON FILM 1/4 390 OHM J	1	
R217	RD-4B682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R219	RD-4B562J-	R CARBON FILM 1/4 5.6K OHM J	1	
R220	RD-4B223J-	R CARBON FILM 1/4 22K OHM J	1	
R221	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R222	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R223	RD-4Z222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R224	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R250	RD-4B104J-	R CARBON FILM 1/4 100K OHM J	1	
R301	RD-4Z101J-	R CARBON FILM 1/4 100 OHM J	1	
R303	RD-4Z562J-	R CARBON FILM 1/4 5.6K OHM J	1	
R304	RD-4Z562J-	R CARBON FILM 1/4 5.6K OHM J	1	
R305	RD-4Z154J-	R CARBON FILM 1/4 150K OHM J	1	
R306	RD-4Z154J-	R CARBON FILM 1/4 150K OHM J	1	
R307	RD-4Z222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R308	RD-4Z222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R309	RD-4Z151J-	R CARBON FILM 1/4 150 OHM J	1	
R310	RD-4B682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R311	RD-4B682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R312	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R313	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R314	RD-4B821J-	R CARBON FILM 1/4 820 OHM J	1	
R315	RD-4B821J-	R CARBON FILM 1/4 820 OHM J	1	
R316	RD-4B684J-	R CARBON FILM ELR 1/4 680K OHM J	1	
R317	RD-4B684J-	R CARBON FILM ELR 1/4 680K OHM J	1	
R318	RD-4Z271J-	R CARBON FILM 1/4 270 OHM J	1	
R320	RD-4Z332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R321	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R322	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R323	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R324	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R325	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
R350	RD-2Z100J-	R CARBON FILM 1/2 10 OHN J	1	
R325	RD-4Z821J-	R CARBON FILM 1/4 820 OHN J	1	
R330	RD-4B100J-	R CARBON FILM 1/4 10 OHN J	1	
R331	RD-4B272J-	R CARBON FILM 1/4 2.7K OHN J	1	
R334	RD-4Z272J-	R CARBON FILM 1/4 2.7K OHN J	1	
TC201	97T7605600	TRIMMER 7PIE 70PF	1	
TC202	97T76003K1	TRIMMER CAP TZ03P-600F	1	
TC203	97T76003K1	TRIMMER CAP TZ03P-600F	1	
TC204	97T76003K1	TRIMMER CAP TZ03P-600F	1	
TC205	97T76003K1	TRIMMER CAP TZ03P-600F	1	
T101	5107FBK501	IFT FM D7×7 BLACK Q=60 C=43PF	1	
T201	5115AYW501	IFT AM FILTER CERA 455 KHZ FSN-1067	1	
T202	5107ABK501	IFT AM C 7×7 BLACK Q=90 C=180PF	1	
VR102	RV1419502-	R SEMI FIXED RV8-FOR-5KB	1	
00010	97T6504100	PCB MAIN XPC 94HB	1	
00120	CEYF1A220A	C ELECTRO 10V 22MF 5×7	1	
00010	97T6504301	PCB VR XPC 94HB	1	
00015	5V2503410B	VR SLIDE S2028K6 50KB×2	1	
00030	5V2503411W	VR SLIDE S2018K6 50KW×1	1	
00040	5V2103412A	VR SLIDE S2028G6 10KA×2	1	
00020	4712532000	TERMINAL PIN 1-3, 2-13	1	
00070	5LC302P501	COIL CHOKE EI-19MM	1	
00010	CFYA1H102P	C CERA FEED WF-A-50V-1000PF GMV	1	
00020	97T63010A1	JACK DIN W/WIRE (GREEN)	1	
00030	97T63010B1	JACK DIN W/WIRE (GRAY)	1	
00040	97T6300900	SOCKET POWER 2P W/WIRE LABEL	1	
00010	5S40202505	SW PUSH 2C-2P LUG TYPE SELF	1	
00020	5S40102503	SW PUSH 1C-2P SPJ312 SELFLOCK	1	
00010	97T76007F1	TUNER MANUAL CMC-EE02	1	
00020	5LL479K501	COIL INDUCTOR 5×10×2.5 MM 4.7UH K	1	
00030	97T6350100	JACK CAR ANT 9.5D 200×40×5×5	1	
00010	4717401860	LAMP 14V 20MA O/WIRE	1	
00030	DKLR226E--	LED KLR-226E	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
D101	D1N4148---	DIODE 1N4148	1	
D102	D1N4148---	DIODE 1N4148	1	
D201	D1N60S----	DIODE 1N60S	1	
D202	D1N4148---	DIODE 1N4148	1	
D203	D1N60S----	DIODE 1N60S	1	
D204	D1N60S----	DIODE 1N60S	1	
D205	D1N4148---	DIODE 1N4148	1	
D206	D1N4148---	DIODE 1N4148	1	
D207	D1N4148---	DIODE 1N4148	1	
D208	D1N4148---	DIODE 1N4148	1	
D301	D1N4148---	DIODE 1N4148	1	
D302	D1N4148---	DIODE 1N4148	1	
D303	D05AZ10V--	DIODE ZENER 05Z 10V (UZ-10B)	1	
00100	1YY86-----	IC YY86	1	
IC101	1K1A7303P-	IC K1A7303P FM-IF	1	
IC102	1K1A7343P-	IC K1A7343P FM-MPX	1	
IC301	1UPC1032H-	IC UPC1032H EQ	1	
L203	5L00000502	COIL MW OSC 7MM SW CAN	1	
L204	5LL479K501	COIL INDUCTOR 5×10×2.5MM 4.7UH K	1	
L205	5LA331J501	COIL INDUCTOR 5×10×2.5MM 330UH J	1	
L206	5LR800J501	COIL LW RF 7×7 80UH-60P-2.52MHZ	1	
L207	5LR211J501	COIL INDUCTOR 5×10×2.5MM 210UH J	1	
L208	5L0500J501	TRANS OSC LW 7MM SQ 50UH J	1	
Q101	TKTC380TM0	TR KTC380TM-O	1	
Q201	TKTC941TM0	TR KTC-941TM-O	1	
Q202	TKTC380TM0	TR KTC380TM-O	1	
Q203	TKTC380TM0	TR KTC380TM-O	1	
Q204	TKTC1815Y-	TR KTC1815-Y	1	
Q205	TKTC1815Y-	TR KTC1815-Y	1	
Q206	TKTC1815Y-	TR KTC1815-Y	1	
Q207	TKTC1815Y-	TR KTC1815-Y	1	
Q301	TKTC1959Y-	TR KTC1959-Y	1	
Q302	TKTC1815Y-	TR KTC1815-Y	1	
Q303	TKTC1815Y-	TR KTC1815-Y		

GXR 214X

ELECTRICAL PART LIST

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
IC104	1LA2205---	I.C.S.K., LA2205	1	
T102	5107FBK322	COIL S.K. 57kHz	1	
	5S40202545	SWITCH BAND SPUJ 31	1	
IC101	1KIA7303P-	IC FM IF KIA7303P	1	
IC102	1KIA7343P-	IC FM MPX KIA7343P	1	
IC103	1YY86-----	IC NOISE CANCELLER YY86	1	
IC301	1UPC1032H-	IC EQ UPC 1032H	1	
IC302	1UPC1185H2	IC POWER UPC 1185H2	1	
Q101	TKTC380TMO	TRANSISTOR KTC380TM-O	1	
Q201	TKTC941TMO	TRANSISTOR KTC941TM-O	1	
Q202	TKTC1923-O	TRANSISTOR KTC1923-O	1	
Q203	TKTC380TMO	TRANSISTOR KTC380TM-O	1	
Q301	TKTC1959Y-	TRANSISTOR KTC1959Y	1	
Q302	TKTC1815Y-	TRANSISTOR KTC1815Y	1	
Q303	TKTC1815Y-	TRANSISTOR KTC1815Y	1	
D101	D1N4148---	DIODE 1N4148	1	
D102	D1N4148---	DIODE 1N4148	1	
D201	D1N60S----	DIODE 1N60S	1	
D202	D1N4148---	DIODE 1N4148	1	
D203	D1N60S----	DIODE 1N60S	1	
D204	D1N60S----	DIODE 1N60S	1	
D205	D1N4148---	DIODE 1N4148	1	
D206	D1N4148---	DIODE 1N4148	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
D301	D1N4148---	DIODE 1N4148	1	
D302	D1N4148---	DIODE 1N4148	1	
D303	D05AZ10V--	DIODE ZENER 05Z 10V (UZ-10B)	1	
CF101	5PSFE107JA	FILTER CERAMIC SFE 107MJ-A	1	
CF102	5PSFE107JA	FILTER CERAMIC SFE 107MJ-A	1	
TC201	97T7605600	FILTER CERAMIC SFE 7 PIE, 70PF	1	
TC203	97T76003K1	TRIMMER CAPACITOR TZ03P600FR	1	
TC204	97T76003K1	TRIMMER CAPACITOR TZ03P600FR	1	
T101	510FBK501-	IFT FM D 10.7MHz	1	
T201	5115AYW501	IFT AM 455kHz	1	
T202	5107ABK501	IFT AM 455kHz	1	
L201	5LL479K501	COIL INDUCTOR 4.7μH K	1	
L203	5L0221K501	COIL MW OSC 790kHz 220μH	1	
L204	5LL479K501	COIL INDUCTOR 4.7μH K	1	
L206	5LR800J501	COIL LW RF 80μH	1	
VR101	RV1419502-	R-SEMI FIXED 5K Ohm B	1	
VR102	RV1419502-	R-SEMI FIXED 5K Ohm B	1	
	97T6300900	SOCKET POWER 2P W/WIRE LA BEL	1	
	97T63010A1	JACK DIN W/WIRE (GREEN)	1	
	97T63010B1	JACK DIN W/WIRE (GRAY)	1	
	97T6350100	JACK CAR ANT	1	
	97T63001J0	RECEPTACLE ASS'Y	1	
	97T63001K0	RECEPTACLE ASS'Y	1	
	97T76007F0	TUNER MANUAL CMC-EE02	1	
	CEYE1H102P	FEED THROUGH CAPACITOR 50V 1000PF	1	
	97T8810900	CONNECTOR ASS'Y	1	
	5V2503410B	V.R. SLIDE S2028K6 50KB×2	2	
	5V2103412A	V.R. SLIDE S2028G6 10KA×2	1	
	5V2503411W	V.R. SLIDE S2018K6 50KW×1	1	
	5S40102503	SWITCH PUSH SPJ312	1	
	5S40202505	SWITCH PUSH SPJ322	1	
	4717401860	LAMP 14V 20MA	1	
	DSLC22VR3-	LED RED SLC-22VR3	1	STEREO INDICATOR

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
C101	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C102	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C103	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C105	CYCH1H100C	CERAMIC CAPACITOR 50V 10pF	1	
C106	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C107	CYSL1H820J	CERAMIC CAPACITOR 50V 82pF	1	
C109	CYRH1H101J	CERAMIC CAPACITOR 50V 100pF	1	
C110	CEYE1H109A	ELECTROLYTIC CAPACITOR 50V 1μF	1	
C111	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C112	CEYF1H339A	ELECTROLYTIC CAPACITOR 50V 3.3μF	1	
C113	CEYF1H109A	ELECTROLYTIC CAPACITOR 50V 1μF	1	
C114	CSYS1H102J	STYROL CAPACITOR 50V 1000pF ±5%	1	
C115	CEYF1H109A	ELECTROLYTIC CAPACITOR 50V 1μF	1	
C116	CMYM1H153J	MYLAR CAPACITOR 50V 0.015μF ±5%	1	
C117	CEYF1C470A	ELECTROLYTIC CAPACITOR 16V 47μF	1	
C119	CMYM1H153J	MYLAR CAPACITOR 50V 0.015μF ±5F	1	
C120	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C121	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C122	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C123	CSYS1H222J	STYROL CAPACITOR 50V 0.0022μF ±5%	1	
C124	CYSL1H221J	CERAMIC CAPACITOR 50V 220pF	1	
C125	CEYF1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C126	CEYF1H108A	ELECTROLYTIC CAPACITOR 50V 0.1μF ±5%	1	
C127	CMYM1H222K	MYLAR CAPACITOR 50V 0.0022μF ±5%	1	
C128	CSYS1H361J	STYROL CAPACITOR 50V 360pF ±5%	1	
C129	CEYF1A101A	ELECTROLYTIC CAPACITOR 10V 100μF	1	
C130	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 1.7μF	1	
C150	CEYE1A101A	ELECTROLYTIC CAPACITOR 10V 100μF	1	
C151	CEYE1A101A	ELECTROLYTIC CAPACITOR 10V 100μF	1	
C152	CEYF1A221A	ELECTROLYTIC CAPACITOR 10V 220μF	1	
C154	CEYE1A220A	ELECTROLYTIC CAPACITOR 10V 22μF	1	
C202	CMYM1H222K	MYLAR CAPACITOR 50V 0.0022μF ±10%	1	
C203	CMYM1H103K	MYLAR CAPACITOR 50V 0.01μF ±10%	1	
C204	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C205	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C206	CSYS1H121J	STYROL CAPACITOR 50V 120pF ±5F	1	
C208	CMYM1H222K	MYLAR CAPACITOR 50V 0.0022μF ±10%	1	
C209	CMYM1H102K	MYLAR CAPACITOR 50V 1000PF ±10%	1	
C210	CMYM1H472K	MYLAR CAPACITOR 50V 0.0047μF ±10%		

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
C211	CMYM1H333K	MYLAR CAPACITOR 50V 0.033μF ±10%	1	
C212	CSYS1H201J	STYROL CAPACITOR 50V 200pF ±5%	1	
C214	CMYM1H223K	MYLAR CAPACITOR 50V 0.022pF ±10%	1	
C215	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C216	CCYF1H223Z	CERAMIC CAPACITOR 50V 0.022μF	1	
C217	CMYM1H333J	MYLAR CAPACITOR 50V 0.033μF ±5%	1	
C218	CMYM1H333J	MYLAR CAPACITOR 50V 0.033μF ±5%	1	
C219	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C220	CEYE1C100A	ELECTROLYTIC CAPACITOR 16V 10μF	1	
C221	CEYE1C100A	ELECTROLYTIC CAPACITOR 16V 10μF	1	
C301	CMYM1H102K	MYLAR CAPACITOR 50V 0.001μF ±10%	1	
C302	CMYM1H102K	MYLAR CAPACITOR 50V 0.001μF ±10%	1	
C303	CEYE1H109N	ELECTROLYTIC CAPACITOR 50V 1μF LN	1	
C304	CEYE1H109N	ELECTROLYTIC CAPACITOR 50V 1μF LN	1	
C305	CEYE1A470A	ELECTROLYTIC CAPACITOR 10V 17μF	1	
C306	CEYF1C470A	ELECTROLYTIC CAPACITOR 16V 17μF	1	
C307	CMYM1H223J	MYLAR CAPACITOR 50V 0.022μF ±5%	1	
C308	CMYM1H223J	MYLAR CAPACITOR 50V 0.022μF ±5%	1	
C311	CEYE1C101A	ELECTROLYTIC CAPACITOR 16V 100μF	1	
C312	CMYM1H682J	MYLAR CAPACITOR 50V 0.0068μF ±5%	1	
C313	CMYM1H682J	MYLAR CAPACITOR 50V 0.0068μF ±5%	1	
C314	CMYM1H333J	MYLAR CAPACITOR 50V 0.0033μF ±5%	1	
C315	CMYM1H333J	MYLAR CAPACITOR 50V 0.033μF ±5%	1	
C316	CMYM1H473J	MYLAR CAPACITOR 50V 0.047μF ±5%	1	
C317	CMYM1H473J	MYLAR CAPACITOR 50V 0.047μF ±5%	1	
C318	CAYH1C478M	ALUMINUM CAPACITOR 16V 0.47μF	1	
C319	CAYH1C478M	ALUMINUM CAPACITOR 16V 0.47μF	1	
C320	CEYE1H109A	ELECTROLYTIC CAPACITOR 50V 1μF	1	
C321	CEYE1H109A	ELECTROLYTIC CAPACITOR 50V 1μF	1	
C322	CCYB1H331K	CERAMIC CAPACITOR 50V 330μF	1	
C323	CCYB1H331K	CERAMIC CAPACITOR 50V 330μF	1	
C324	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C325	CEYE1H479A	ELECTROLYTIC CAPACITOR 50V 4.7μF	1	
C328	CEYE1C101A	ELECTROLYTIC CAPACITOR 16V 100μF	1	
C329	CEYE1A101A	ELECTROLYTIC CAPACITOR 10V 100μF	1	
C330	CEYE1C101A	ELECTROLYTIC CAPACITOR 16V 100μF	1	
C334	CMYM1H102K	MYLAR CAPACITOR 50V 0.001μF ±10%	1	
C335	CMYM1H102K	MYLAR CAPACITOR 50V 0.001μF ±10%	1	
C336	CEYE1A221A	ELECTROLYTIC CAPACITOR 10V 220μF	1	
C337	CEYE1A221A	ELECTROLYTIC CAPACITOR 10V 220μF	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
C338	CEYE1C470A	ELECTROLYTIC CAPACITOR 16V 47μF	1	
C339	CEYE1C470A	ELECTROLYTIC CAPACITOR 16V 47μF	1	
C340	CEYF1A102A	ELECTROLYTIC CAPACITOR 10V 1000μF	1	
C341	CEYF1A102A	ELECTROLYTIC CAPACITOR 10V 1000μF	1	
C342	CCYF1E224E	CERAMIC CAPACITOR 25V 0.22μF ±10%	1	
C343	CCYF1E224Z	CERAMIC CAPACITOR 25V 0.22μF ±10%	1	
C344	CEYF1C102A	ELECTROLYTIC CAPACITOR 16V 1000μF	1	
C345	CEYE1C470A	ELECTROLYTIC CAPACITOR 16V 47μF	1	
C350	CMYM1H103J	MYLAR CAPACITOR 50V 0.01μF ±5%	1	
C351	CMYM1H103J	MYLAR CAPACITOR 50V 0.01μF ±5%	1	
R102	RD-4B151J-	CARBON FILM RESISTOR 1/4W 150 OHM ±5%	1	
R103	RD-4B272J-	CARBON FILM RESISTOR 1/4W 2.7K OHM ±5%	1	
R104	RD-4B561J-	CARBON FILM RESISTOR 1/4W 560 OHM ±5%	1	
R105	RD-4B331J-	CARBON FILM RESISTOR 1/4W 330 OHM ±5%	1	
R106	RD-4B471J-	CARBON FILM RESISTOR 1/4W 470 OHM ±5%	1	
R107	RD-4B470J-	CARBON FILM RESISTOR 1/4W 47 OHM ±5%	1	
R108	RD-4B331J-	CARBON FILM RESISTOR 1/4W 330 OHM ±5%	1	
R109	RD-4B470J-	CARBON FILM RESISTOR 1/4W 47 OHM ±5%	1	
R113	RD-4B224J-	CARBON FILM RESISTOR 1/4W 220K OHM ±5%	1	
R114	RD-4B224J-	CARBON FILM RESISTOR 1/4W 220K OHM ±5%		
R115	RD-4B103J-	CARBON FILM RESISTOR 1/4W 10K OHM ±5%	1	
R116	RD-4B393J-	CARBON FILM RESISTOR 1/4W 39K OHM ±5%	1	
R117	RD-4Y102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%	1	
R118	RD-4Y103J-	CARBON FILM RESISTOR 1/4W 10K OHM ±5%	1	
R119	RD-4Y104J-	CARBON FILM RESISTOR 1/4W 100K OHM ±5%	1	
R121	RD-4Y102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%		
R122	RD-4Y332J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R123	RD-4Y332J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R124	RD-1Y273J-	CARBON FILM RESISTOR 1/4W 27K OHM ±5%	1	
R125	RD-4Y273J-	CARBON FILM RESISTOR 1/4W 27K OHM ±5%	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
R126	RD-1Y472J-	CARBON FILM RESISTOR 1/4W 4.7K OHM ±5%	1	
R127	RD-1Y472J-	CARBON FILM RESISTOR 1/4W 4.7K OHM ±5%	1	
R128	RD-1B221J-	CARBON FILM RESISTOR 1/4W 220 OHM ±5%	1	
R129	RD-4B322J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R130	RD-1B102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%	1	
R131	RD-AY103J-	CARBON FILM RESISTOR 1/16W 10K OHM ±5%	1	
R132	RD-4B332J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R133	RD-4B470J-	CARBON FILM RESISTOR 1/4W 47 OHM ±5%	1	
R134	RD-AY823J-	CARBON FILM RESISTOR 1/16W 82K OHM ±5%	1	
R202	RD-4B222J-	CARBON FILM RESISTOR 1/4W 2.2K OHM ±5%	1	
R203	RD-4B151J-	CARBON FILM RESISTOR 1/4W 150 OHM ±5%	1	
R206	RD-4B152J-	CARBON FILM RESISTOR 1/4W 1.5K OHM ±5%	1	
R207	RD-4B822J-	CARBON FILM RESISTOR 1/4W 8.2K OHM ±5%	1	
R208	RD-4B272J-	CARBON FILM RESISTOR 1/4W 2.7K OHM ±5%	1	
R209	RD-4B102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%	1	
R210	RD-4B391J-	CARBON FILM RESISTOR 1/4W 390 OHM ±5%	1	
R211	RD-4B102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%	1	
R212	RD-4B683J-	CARBON FILM RESISTOR 1/4W 68K OHM ±5%	1	
R213	RD-4B332J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R214	RD-4B221J-	CARBON FILM RESISTOR 1/4W 220 OHM ±5%	1	
R215	RD-4B391J-	CARBON FILM RESISTOR 1/4W 390 OHM ±5%	1	
R217	RD-4B682J-	CARBON FILM RESISTOR 1/4W 6.8K OHM ±5%	1	
R219	RD-4B562J-	CARBON FILM RESISTOR 1/4W 5.6K OHM ±5%	1	
R220	RD-4B223J-	CARBON FILM RESISTOR 1/4W 22K OHM ±5%	1	
R250	RD-4B104J-	CARBON FILM RESISTOR 1/4W 100K OHM ±5%	1	
R251	RD-4B272J-	CARBON FILM RESISTOR 1/4W 2.7K OHM ±5%	1	
R301	RD-4Y101J-	CARBON FILM RESISTOR 1/4W 100 OHM ±5%	1	
R302	RD-4Y101J-	CARBON FILM RESISTOR 1/4W 100 OHM ±5%	1	
R303	RD-4Y562J-	CARBON FILM RESISTOR 1/4W 5.6K OHM ±5%	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
R304	RD-4Y562J-	CARBON FILM RESISTOR 1/4W 5.6K OHM ±5%	1	
R305	RD-4Y154J-	CARBON FILM RESISTOR 1/4W 150K OHM ±5%	1	
R306	RD-4Y154J-	CARBON FILM RESISTOR 1/4W 150K OHM ±5%	1	
R307	RD-4Y222J-	CARBON FILM RESISTOR 1/4W 2.2K OHM ±5%	1	
R308	RD-4Y222J-	CARBON FILM RESISTOR 1/4W 2.2K OHM ±5%	1	
R309	RD-4Y151J-	CARBON FILM RESISTOR 1/4W 150 OHM ±5%	1	
R310	RD-4B682J-	CARBON FILM RESISTOR 1/4W 6.8K OHM ±5%	1	
R311	RD-4B682J-	CARBON FILM RESISTOR 1/4W 6.8K OHM ±5%	1	
R312	RD-4Y102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%	1	
R313	RD-4Y102J-	CARBON FILM RESISTOR 1/4W 1K OHM ±5%	1	
R314	RD-4B821J-	CARBON FILM RESISTOR 1/4W 820 OHM ±5%	1	
R315	RD-4B821J-	CARBON FILM RESISTOR 1/4W 820 OHM ±5%	1	
R316	RD-4B684J-	CARBON FILM RESISTOR 1/4W 680K OHM ±5%	1	
R317	RD-4B684J-	CARBON FILM RESISTOR 1/4W 680K OHM ±5%	1	
R318	RD-4Y271J-	CARBON FILM RESISTOR 1/4W 270 OHM ±5%	1	
R319	RD-4B271J-	CARBON FILM RESISTOR 1/4W 270 OHM ±5%	1	
R320	RD-4Y332J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R321	RD-4B332J-	CARBON FILM RESISTOR 1/4W 3.3K OHM ±5%	1	
R322	RD-4B222J-	CARBON FILM RESISTOR 1/4W 2.2K OHM ±5%	1	
R323	RD-4B222J-	CARBON FILM RESISTOR 1/4W 2.2K OHM ±5%	1	
R324	RD-4Y222J-	CARBON FILM RESISTOR 1/4W 2.2K OHM ±5%	1	
R325	RD-4Y821J-	CARBON FILM RESISTOR 1/4W 820 OHM ±5%	1	
R330	RD-4B100J-	CARBON FILM RESISTOR 1/4W 10 OHM ±5%	1	
R331	RD-4B272J-	CARBON FILM RESISTOR 1/4W 2.7K OHM ±5%	1	
R350	RD-2Z100J-	CARBON FILM RESISTOR 1/2W 10 OHM ±5%	1	

GXR 215

ELECTRICAL PARTS LIST

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
C101	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C102	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C103	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C104	CYRH1H100C	C CERA RH 50V 10PF C	1	
C105	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C106	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
C107	CEYF1H109A	C ELECTRO 50V 1MF RSM=4×7	1	
C108	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
C109	CEYE1V479A	C ELECTRO 35V 4.7MF 5×11	1	
C110	CEYE1C220A	C ELECTRO 16V 22MF 8×11.5	1	
C111	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C112	CEYF1V479A	C ELECTRO 35V 4.7MF SSM 4×7	1	
C113	CEYF1A470A	C ELECTRO 10V 47MF 6.3×7	1	
C114	CEYE1V339A	C ELECTRO 35V 3.3MF 5×11 RS	1	
C115	CEYF1H109A	C ELECTRO 50V 1MF RSM=4×7	1	
C116	CSYS1H102J	C STYROL 50V 1000PF J	1	
C117	CEYE1H229A	C ELECTRO 50V 2.2MF 5×11	1	
C118	CMYM1H123J	C MYLAR 50V 0.012MF J	1	
C119	CMYM1H123J	C MYLAR 50V 0.012MF J	1	
C120	CSYS1H361J	C STYROL 50V 360PF J	1	
C121	CMYM1H152J	C MYLAR 50V 1500PF J	1	
C122	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
C123	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C124	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C125	CSYS1H121J	C STYROL 50V 120PF J	1	
C126	CSYS1H272J	C STYROL 50V 2700PF J	1	
C127	CMYM1H222J	C MYLAR 50V 2200PF J	1	
C128	CMYM1H222J	C MYLAR 50V 2200PF J	1	
C129	CMYM1H472J	C MYLAR 50V 4700PF J	1	
C130	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C131	CSYS1H201J	C STYROL 50V 200PF J	1	
C132	CSYS1H701J	C STYROL 50V 700PF J	1	
C133	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
C134	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
C135	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
C136	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
G137	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
C138	CEYF1V479A	C ELECTRO 35V 4.7MF SSM 4×7	1	
C139	CEYF1C100A	C ELECTRO 16V 10MF 4×7	1	
C140	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
C141	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
C142	CEYF1C471A	C ELECTRO 16V 470MF 10×16	1	
C201	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C202	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C203	CEYE1H109N	C ELECTRO 50V 1MF LN RLE 5×11	1	
C204	CEYE1H109N	C ELECTRO 50V 1MF LN RLE 5×11	1	
C205	CEYE1A470A	C ELECTRO 10V 47MF 5×11	1	
C206	CEYE1A470A	C ELECTRO 10V 47MF 5×11	1	
C207	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
C208	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
C209	CEYE1V479A	C ELECTRO 35V 4.7MF 5×11	1	
C210	CEYE1V479A	C ELECTRO 35V 4.7MF 5×11	1	
C211	CMYM1H123J	C MYLAR 50V 0.012MF J	1	
C212	CMYM1H123J	C MYLAR 50V 0.012MF J	1	
C213	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C214	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
C215	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
C216	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
C217	CEYE1C478A	C ELECTRO 16V 0.47MF SM	1	
C218	CEYE1C478A	C ELECTRO 16V 0.47MF SM	1	
C219	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C220	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C221	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
C222	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
C223	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C224	CEYE1H109A	C ELECTRO 50V 1MF 5×11	1	
C225	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C226	CMYM1H102J	C MYLAR 50V 0.001MF J	1	
C227	CEYE0J101A	C ELECTRO 6.3V 100MF 6.3×11	1	
C228	CEYE0J101A	C ELECTRO 6.3V 100MF 6.3×11	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
C229	CEYE0J101A	C ELECTRO 6.3V 100MF 6.3×11	1	
C230	CEYE0J101A	C ELECTRO 6.3V 100MF 6.3×11	1	
C231	CEYF1C221A	C ELECTRO 16V 220MF 8×11.5	1	
C232	CEYF1C221A	C ELECTRO 16V 220MF 8×11.5	1	
C233	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C234	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C235	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C236	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C237	CMYM1H154J	C MYLAR 50V 0.15MF J	1	
C238	CMYM1H154J	C MYLAR 50V 0.15MF J	1	
C239	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
C240	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
C241	CMYM1H154J	C MYLAR 50V 0.15MF J	1	
C242	CMYM1H154J	C MYLAR 50V 0.15MF J	1	
C243	CEYE1C102A	C ELECTRO 16V 1000MF RS=13×20	1	
C244	CEYE1C102A	C ELECTRO 16V 1000MF RS=13×20	1	
C245	CEYE1A101A	C ELECTRO 10V 100MF 6.3×11	1	
C246	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C248	CEYE1C101A	C ELECTRO 16V 100MF 8×11.5	1	
C249	CEYE1C221A	C ELECTRO 16V 220MF 10×12.5	1	
R101	RD-AZ151JK	1/6 150 OHM J	1	
R102	RD-AZ272JK	1/6 2.7K OHM J	1	
R103	RD-AZ561JK	1/6 560 OHM J	1	
R104	RD-AZ331JK	1/6 330 OHM J	1	
R105	RD-AZ471JK	1/6 470 OHM J	1	
R106	RD-AZ331JK	1/6 330 OHM J	1	
R107	RD-AZ470JK	1/6 47 OHM J	1	
R108	RD-AZ470JK	1/6 47 OHM J	1	
R109	RD-AZ393JK	1/6 39K OHM J	1	
R110	RD-AZ224JK	1/6 220K OHM J	1	
R111	RD-AZ223JK	1/6 22K OHM J	1	
R112	RD-AZ820JK	1/6 82 OHM J	1	
R113	RD-4Z102JK	1/4 1K OHM JK	1	
R114	RD-4Z103JK	1/4 10K OHM J	1	
R116	RD-4Z104JK	1/4 100K OHM J	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
R117	RD-AZ102JK	1/6 1K OHM J	1	
R118	RD-4Z332JK	1/4 3.3K OHM J	1	
R119	RD-4Z332JK	1/4 3.3K OHM J	1	
R120	RD-4Z822JK	1/4 8.2K OHM J	1	
R121	RD-4Z822JK	1/4 8.2K OHM J	1	
R122	RD-4Z223JK	1/4 22K OHM J	1	
R123	RD-4Z223JK	1/4 22K OHM J	1	
R124	RD-4Z222JK	1/4 2.2K OHM J	1	
R125	RD-AZ222JK	1/6 2.2K OHM J	1	
R126	RD-4Z151JK	1/4 150 OHM J	1	
R127	RD-4Z222JK	1/4 2.2K OHM J1		
R128	RD-4Z152JK	1/4 1.5K OHM J	1	
R129	RD-4Z272JK	1/4 2.7K OHM J	1	
R130	RD-4Z822JK	1/4 8.2K OHM J	1	
R131	RD-AZ102JK	1/6 1K OHM J	1	
R132	RD-4Z223JK	1/4 22K OHM J	1	
R133	RD-4Z222JK	1/4 2.2K OHM J	1	
R134	RD-AZ391JK	1/6 390 OHM J	1	
R135	RD-AZ102JK	1/6 1K OHM J	1	
R136	RD-AZ683JK	1/6 68K OHM J	1	
R137	RD-AZ332JK	1/6 3.3K OHM J	1	
R138	RD-AZ221JK	1/6 220 OHM J	1	
R139	RD-AZ391JK	1/6 390 OHM J	1	
R140	RD-4Z223JK	1/4 22K OHM J	1	
R142	RD-AZ682JK	1/6 6.8K OHM J	1	
R143	RD-4Z224JK	1/4 220K OHM J	1	
R144	RD-AZ472JK	1/6 4.7K OHM J	1	
R147	RD-4Z470JK	1/4 47 OHM J	1	
R201	RD-4Z820JK	1/4 82 OHM J	1	
R202	RD-AZ820JK	1/6 82 OHM J	1	
R203	RD-AZ682JK	1/6 6.8K OHM J	1	
R204	RD-4Z682JK	1/4 6.8K OHM J	1	
R205	RD-AZ154JK	1/6 150K OHM J	1	
R206	RD-AZ154JK	1/6 150K OHM J	1	
R207	RD-4Z222JK	1/4 2.2K OHM J	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
R208	RD-4Z222JK	1/4 2.2K OHM J	1	
R209	RD-AZ472JK	1/6 4.7K OHM J	1	
R210	RD-AZ472JK	1/6 4.7K OHM J	1	
R211	RD-4Z222JK	1/4 2.2K OHM J	1	
R212	RD-AZ222JK	1/6 2.2K OHM J	1	
R213	RD-4Y102Jk	1/4 1K OHM J	1	
R214	RD-4Y102JK	1/4 1K OHM J	1	
R215	RD-AZ102JK	1/6 1K OHM J	1	
R216	RD-AZ102JK	1/6 1K OHM J	1	
R217	RD-AZ684JK	1/6 680K OHM J	1	
R218	RD-AZ684JK	1/6 680K OHM J	1	
R219	RD-AZ680JK	1/6 68 OHM J	1	
R220	RD-AZ680JK	1/6 68 OHM J	1	
R221	RD-AZ332JK	1/6 3.3K OHM J	1	
R222	RD-AZ332JK	1/6 3.3K OHM J	1	
R223	RD-AZ474JK	1/6 470K OHM J	1	
R224	RD-4Z474JK	1/4 470K OHM J	1	
R225	RD-AZ474JK	1/6 470K OHM J	1	
R226	RD-4Z474JK	1/4 470K OHM J	1	
R227	RD-AZ279JK	1/6 2.7 OHM J	1	
R228	RD-4Z279JK	1/4 2.7 OHM J	1	
R229	RD-AZ279JK	1/6 2.7 OHM J	1	
R230	RD-4Z279JK	1/4 2.7 OHM J	1	
R231	RD-4Z279JK	1/4 2.7 OHM J	1	
R232	RD-AZ279JK	1/6 2.7 OHM J	1	
R233	RD-AZ100JK	1/6 10 OHM J	1	
R234	RD-AZ272JK	1/6 2.7K OHM J	1	
R235	RD-AZ102JK	1/6 1K OHM J	1	
R238	RD-4Z181JK	1/4 180 OHM J	1	
R239	RD-AZ222JK	1/6 2.2K OHM J	1	
TC101	97T7605600	TRIMMER 7PIE70PF	1	
TC102	97T76003K1	TRIMMER CAP TZ03P-600F	1	
TC103	97T76003K1	TRIMMER CAP TZ03P-600F	1	
TC104	97T76003K1	TRIMMER CAP TZ03P-600F	1	
			1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
TC105	97T76003K1	TRIMMER CAP TZ03P-600F	1	
00020	CFYA1H102P	C CERA FEED WF-A-50V-1000PF GMV	1	
00160	DKLR226E--	LED KLR-226E	1	
00010	97T6350100	JACK CAR ANT 9.5D 200×40×5×5	1	
CF101	5PE107MS3-	FILTER CERA SFE107MS3-A	1	
CF102	5PE107MS3-	FILTER CERA SFE107MS3-A	1	
00030	97T63010A2	JACK DIN W/WIRE GREEN LF	1	
00040	97T63010A3	JACK DIN W/WIRE RED LR	1	
00050	97T63010B2	JACK DIN W/WIRE GRAY RF	1	
00060	97T63010B3	JACK DIN W/WIRE BLUE RR	1	
00070	97T6300900	SOCKET POWER 2P W/WIRE LABEL	1	
00030	5V2503410A	VR SLIDE S2028K6 50KA×2	1	
00040	5V2503410A	VR SLIDE S2028K6 50KA×2	1	
00050	5V2103412A	VR SLIDE S2028G6 10KA×2	1	
00060	5V2503411W	VR SLIDE S2018K6 50KW×1	1	
00080	4717401860	LAMP 14V 20MA O/WIRE	1	
T101	5107FBL116	1FT FM B 7×7 BLUE	1	
T102	5LR800J501	COIL LW RF 7×7 80UH-60P-2.52MHz	1	
T103	5L0221K501	COIL MW OSC 7×7 80PF 790KHz 1.4 220UH	1	
T104	5L0500J501	TRANS OSC LW 7MM SQ 50CH J	1	
T105	5115AYW501	IFT AM 455KHz FSN-1067	1	
T106	5107ABK501	IFT AM C 7×7 BLACK Q=90 C=180PF M	1	
D101	DIN4148---	DIODE IN4148	1	
D102	DIN4148---	DIODE IN4148	1	
D103	DIN4148---	DIODE IN4148	1	
D104	DIN4148---	DIODE IN4148	1	
D105	DIN60S----	DIODE IN 60S	1	
D106	DIN4148---	DIODE IN4148	1	
D107	DIN60S----	DIODE IN60S	1	
D108	DIN60S----	DIODE IN 60S	1	
D109	D05AZ10V--	DIODE ZENER 05Z 10V (UZ-10B)	1	
D201	DIN4002---	DIODE IN4002 1A 100V	1	
IC101	1KIA7303P-	IC KIA 7303P FM-IF	1	
IC102	1YY86----	IC YY86 NOISE CANCELLER	1	
IC103	1KIA7343P-	IC KIA 7343P FM-MPX	1	
IC201	1UPC1032H-	IC UPC 1032H EQ	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
L102	5LA331J501	COIL INDUCTOR 5×10×2.5MM 330 UH J	1	
L103	5LL479K501	COIL INDUCTOR 5×10×2.5MM 4.7UH K	1	
L104	5LR211J501	COIL INDUCTOR 5×10×2.5MM 210UH J	1	
Q101	TKTC380TM0	TR KTC380TM-O	1	
Q102	TKTC1815Y-	TR KTC1815-Y	1	
Q103	TKTC941TM0	TR KTC-941TM-O	1	
Q104	TKTC1815Y-	TR KTC 1815-Y	1	
Q105	TKTC380TM0	TR KTC380TM-O	1	
Q106	TKTC1815Y-	TR KTC1815-Y	1	
Q107	TKTC1815Y-	TR KTC1815-Y	1	
Q108	TKTC380TM0	TR KTC380TM-O	1	
Q201	TKTC1815Y-	TR KTC1815-Y	1	
Q202	TKTC1815Y-	TR KTC1815-Y	1	
Q203	TKTC1959Y-	TR KTC1959-Y	1	
00010	97T65113MA	PCB MAIN XPC 94HB 1.6T	1	
00010	97T63001P0	RECEPTACLE ASS'Y FUSE HOLDER+LABEL 5A	1	
00020	97T63001K0	RECEPTACLE ASS'Y 250 TAB ON TERMINAL	1	

GXR 216X

ELECTRICAL PARTS LIST

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
CB346	CCYF1E224Z	C CERA HIKF 25V 0.22MF Z	1	
CB347	CCYF1E224Z	C CERA HIKF 25V 0.22MF Z	1	
CC101	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
CC102	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
CC103	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
CC105	CYCH1H100C	C CERA CH 50V 10PF C	1	
CC108	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
CC116	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
CC130	CCYB1H121K	C CERA HIKB 50V 120PF K	1	
CC131	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
CC205	CYRH1H220J	C CERA RH 50V 22PF J	1	
CC218	CCYF1H223Z	C CERA HIKF 50V 0.022MF Z	1	
CC335	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
CC336	CCYB1H221K	C CERA HIKB 50V 220PF K	1	
CE102	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE106	CEYF1H109A	C ELECTRO 50V 1MF 4×7	1	
CE109	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
CE110	CEYF1A221A	C ELECTRO 10V 220MF 8×8.5	1	
CE118	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE119	CEYF1A221A	C ELECTRO 10V 220MF 8×8.5	1	
CE120	CEYF1C220A	C ELECTRO 16V 22MF SSM	1	
CE121	CEYF1C101A	C ELECTRO 16V 100MF 6.3×11	1	
CE122	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE123	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE124	CEYF1H339A	C ELECTRO 50V 3.3MF SSM	1	
CE125	CEYF1H109A	C ELECTRO 50V 1MF 4×7	1	
CE127	CEYF1H109A	C ELECTRO 50V 1MF 4×7	1	
CE208	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE214	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE216	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
CE217	CEYF1C221A	C ELECTRO 16V 220MF 8×11.5	1	
CE303	CEYF1H109A	C ELECTRO 50V 1MF 4×7	1	
CE304	CEYF1H109A	C ELECTRO 50V 1MF 4×7	1	
CE305	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE306	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE311	CEYF1A221A	C ELECTRO 10V 220MF 8×8.5	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
CE351	CEYF1C471A	C ELECTRO 16WV 470MF (SSM)	1	
CE312	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE313	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE314	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
CE316	CEYF1A101A	C ELECTRO 10V 100MF 6.3×11	1	
CE317	CEYF1A221A	C ELECTRO 10V 220MF 8×8.5	1	
CE318	CEYF1C471A	C ELECTRO 16WV 470MF (SSM)	1	
CE319	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE320	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE321	CEYF1A470A	C ELECTRO 10V 47MF 6.3×7	1	
CE322	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE323	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE324	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE325	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE330	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
CE333	CEYF1H478A	C ELECTRO 50V 0.47MF RSM	1	
CE334	CEYF1H478A	C ELECTRO 50V 0.47MF RSM	1	
CE337	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE338	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE339	CEYF1C471A	C ELECTRO 16WV 470MF (SSM)	1	
CE340	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE341	CEYF1C100A	C ELECTRO 16V 10MF SSM	1	
CE342	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CM201	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CM202	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
CM203	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM206	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CM207	CMYM1H472J	C MYLAR 50V 0.0047MF J	1	
CM209	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
CM210	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM211	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM212	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM213	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
CM215	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
CM326	CMYM1H682J	C MYLAR 50V 6800PF J	1	
CM327	CMYM1H682J	C MYLAR 50V 6800PF J	1	
CM328	CMYM1H333J	C MYLAR 50V 0.033MF J	1	
CM329	CMYM1H333J	C MYLAR 50V 0.033MF J	1	

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
CM331	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
CM332	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
CM354	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CM355	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CS112	CSYS1H361J	C STYROL 50V 360PF J	1	
CS126	CSYS1H102J	C STYROL 50V 1000PF J	1	
CS130	CSYS1H222J	C STYROL 50V 2200PF J	1	
CS204	CSYS1H121J	C STYROL 50V 120PF J	1	
CS212	CSYS1H201J	C STYROL 50V 200PF J	1	
CT311	CAYH1C108M	C ALUMINUM 16V 0.1MF M	1	
CT315	CAYH1C108M	C ALUMINUM 16V 0.1MF M	1	
MC115	CMYM1H472J	C MYLAR 50V 0.0047MF J	1	
MC117	CMYM1H473J	C MYLAR 50V 0.047MF J	1	
CM109	CMYM1H103J	C MYLAR 50V 0.01MF J	1	
CM110	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM111	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CM128	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM129	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM301	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CM302	CMYM1H222J	C MYLAR 50V 2200PF J	1	
CM307	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CM308	CMYM1H223J	C MYLAR 50V 0.022MF J	1	
CE343	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE344	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE345	CEYF1C101A	C ELECTRO 16V 100MF 6.3×11	1	
CE348	CEYF1C102A	C ELECTRO 16V 1000MF RSM	1	
CE349	CEYF1C102A	C ELECTRO 16V 1000MF RSM	1	
CE350	CEYF1C222A	C ELECTRO 16V 2200MF 16×20	1	
CE352	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE353	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
CE354	CEYF1C101A	C ELECTRO 16V 100MF 6.3×11	1	
CE355	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
CE356	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
CE357	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
EC101	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
EC113	CEYF1H479A	C ELECTRO 50V 4.7MF 5×7	1	
EC114	CEYF1A101A	C ELECTRO 10V 100MF 6.3×11	1	
EC305	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	
EC306	CEYF1C470A	C ELECTRO 16V 47MF 6.3×7	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
R102	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R103	RD-4B272J-	R CARBON FILM 1/4 2.7K OHM J	1	
R104	RD-4B561J-	R CARBON FILM 1/4 560 OHM J	1	
R105	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R106	RD-4B471J-	R CARBON FILM ELR 1/4 470 OHM	1	
R107	RD-4B470J-	R CARBON FILM 1/4 47 OHM J	1	
R108	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R109	RD-4B224J-	R CARBON FILM 1/4 220K OHM J	1	
R110	RD-4B153J-	R CARBON FILM 1/4 15K OHM J	1	
R111	RD-4B224J-	R CARBON FILM 1/4 220K OHM J	1	
R112	RD-4B103J-	R CARBON FILM 1/4 10K OHM J	1	
R113	RD-4B470J-	R CARBON FILM 1/4 47 OHM J	1	
R114	RD-4B151J-	R CARBON FILM 1/4 150 OHM J	1	
R115	RD-4B103J-	R CARBON FILM 1/4 10K OHM J	1	
R116	RD-4B211J-	R CARBON FILM 1/4 220 OHM J	1	
R117	RD-4B823J-	R CARBON FILM 1/4 82K OHM J	1	
R118	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R119	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R120	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R121	RD-4B392J-	R CARBON FILM 1/4 3.9K OHM J	1	
R122	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R123	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R124	RD-4B103J-	R CARBON FILM 1/4 10K OHM J	1	
R125	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R126	RD-4B104J-	R CARBON FILM 1/4 100K OHM J	1	
R127	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R128	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R129	RD-4Z473J-	R CARBON FILM 1/4 47K OHM J	1	
R130	RD-4Z473J-	R CARBON FILM 1/4 47K OHM J	1	
R131	RD-4B122J-	R CARBON FILM 1/4 1.2K OHM J	1	
R132	RD-4B122J-	R CARBON FILM 1/4 1.2K OHM J	1	
R133	RD-4Z470J-	R CARBON FILM 1/4 47 OHM J	1	
R134	RD-4B333J-	R CARBON FILM ELR 1/4 33K OHM J	1	
R135	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R201	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R202	RD-4B271J-	R CARBON FILM 1/4 270 OHM J	1	
R204	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R205	RD-4B272J-	R CARBON FILM 1/4 2.7K OHM J	1	

REF. NO	PART NO	DESCRIPTION	Q'TY	REMARK
R206	RD-4B562J-	R CARBON FILM 1/4 5.6K OHM J	1	
R207	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R208	RD-4B683J-	R CARBON FILM 1/4 68K OHM J	1	
R209	RD-4B101J-	R CARBON FILM 1/4 100 OHM J	1	
R210	RD-4B332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R211	RD-4B221J-	R CARBON FILM 1/4 220 OHM J	1	
R212	RD-4B822J-	R CARBON FILM ELR 1/4 8.2K OHM	1	
R213	RD-4B122J-	R CARBON FILM 1/4 1.2K OHM J	1	
R214	RD-4B223J-	R CARBON FILM 1/4 22K OHM J	1	
R215	RD-4B223J-	R CARBON FILM 1/4 22K OHM J	1	
R216	RD-4Z223J-	R CARBON FILM 1/4 22K OHM J	1	
R217	RD-4Z223J-	R CARBON FILM 1/4 22K OHM J	1	
R218	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R219	RD-4B391J-	R CARBON FILM 1/4 390 OHM J	1	
R220	RD-4B391J-	R CARBON FILM 1/4 390 OHM J	1	
R301	RD-4Z101J-	R CARBON FILM 1/4 100 OHM J	1	
R302	RD-4Z101J-	R CARBON FILM 1/4 100 OHM J	1	
R303	RD-4Z562J-	R CARBON FILM 1/4 5.6K OHM J	1	
R304	RD-4Z562J-	R CARBON FILM 1/4 5.6K OHM J	1	
R305	RD-4Z154J-	R CARBON FILM 1/4 150K OHM J	1	
R306	RD-4Z154J-	R CARBON FILM 1/4 150K OHM J	1	
R307	RD-4Z272J-	R CARBON FILM 1/4 2.7K OHM J	1	
R308	RD-4Z272J-	R CARBON FILM 1/4 2.7K OHM J	1	
R309	RD-4Z122J-	R CARBON FILM 1/4 1.2K OHM J	1	
R310	RD-4Z122J-	R CARBON FILM 1/4 1.2K OHM J	1	
R355	RD-2Z100J-	R CARBON FILM 1/2 10 OHM J	1	
R311	RD-4Z153J-	R CARBON FILM 1/4 15K OHM J	1	
R312	RD-4Z104J-	R CARBON FILM 1/4 100K OHM J	1	
R313	RD-4Z332J-	R CARBON FILM 1/4 3.3K OHM J	1	
R314	RD-4Z222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R315	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R316	RD-4B822J-	R CARBON FILM ELR 1/4 8.2K OHM	1	
R327	RD-4Z682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R328	RD-4B474J-	R CARBON FILM 1/4 470K OHM J	1	
R329	RD-4B334J-	R CARBON FILM 1/4 330K OHM J	1	
R330	RD-4B103J-	R CARBON FILM 1/4 10K OHM J	1	

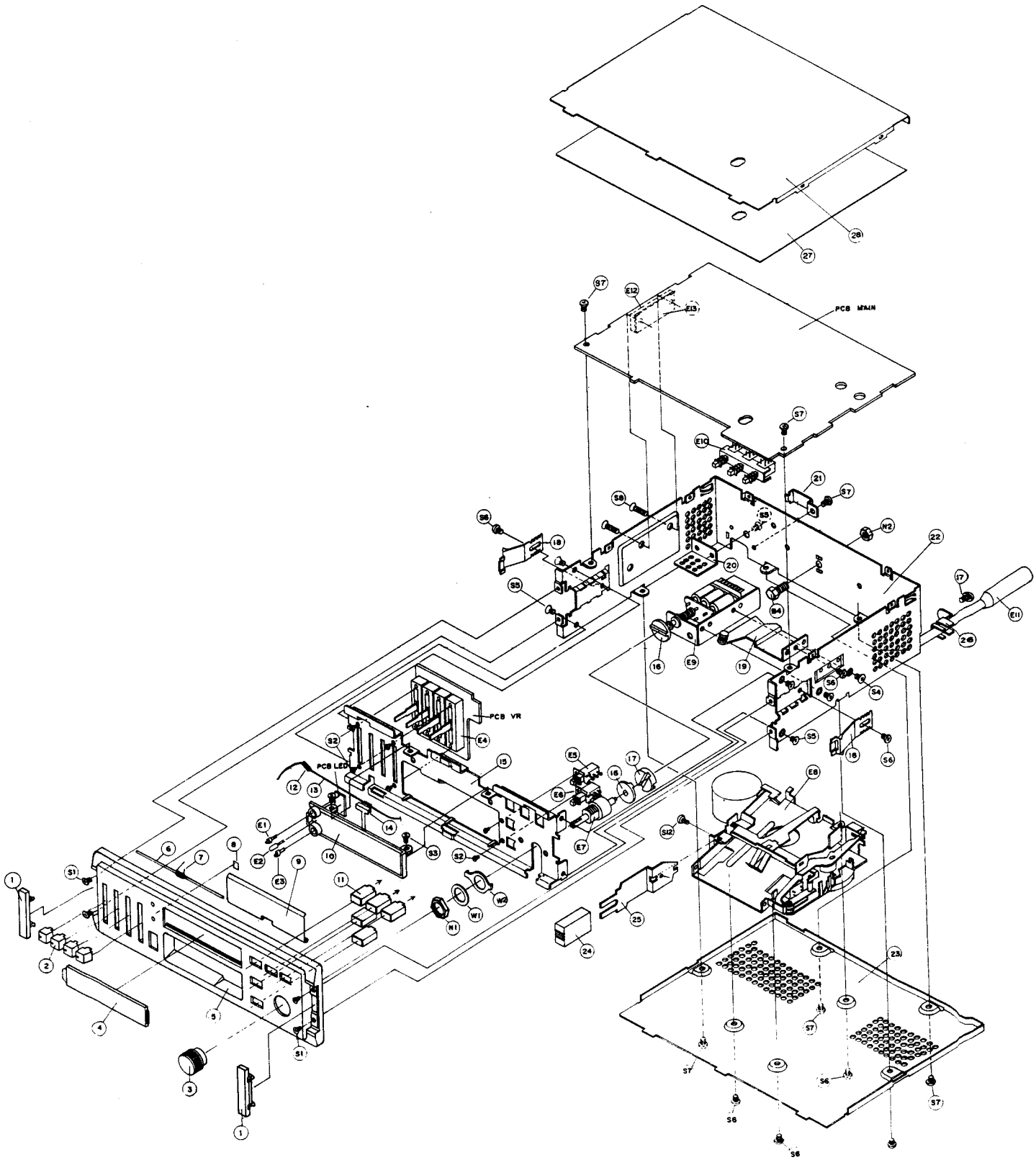
REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
R331	RD-4Z479J-	R CARBON FILM 1/4 4.7 OHM J	1	
R332	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R333	RD-4Z684J-	R CARBON FILM 1/4 680K OHM J	1	
R334	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R335	RD-4B102J-	R CARBON FILM 1/4 1K OHM J	1	
R336	RD-4B682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R337	RD-4B682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R338	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R339	RD-4Z102J-	R CARBON FILM 1/4 1K OHM J	1	
R340	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R341	RD-4B222J-	R CARBON FILM 1/4 2.2K OHM J	1	
R342	RD-4B821J-	R CARBON FILM 1/4 820 OHM J	1	
R343	RD-4B821J-	R CARBON FILM 1/4 820 OHM J	1	
R344	RD-AZ331J-	R CARBON FILM 1/4 330 OHM J	1	
R345	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R346	RD-4Z682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R347	RD-4B682J-	R CARBON FILM 1/4 6.8K OHM J	1	
R348	RD-4B684J-	R CARBON FILM 1/4 680K OHM J	1	
R349	RD-4B684J-	R CARBON FILM 1/4 680K OHM J	1	
R350	RD-4Z479J-	R CARBON FILM 1/4 4.7 OHM J	1	
R351	RD-4Z479J-	R CARBON FILM 1/4 4.7 OHM J	1	
R352	RD-4Z221J-	R CARBON FILM 1/4 220 OHM J	1	
R353	RD-4Z221J-	R CARBON FILM 1/4 220 OHM J	1	
R354	RD-4B331J-	R CARBON FILM 1/4 330 OHM J	1	
R356	RD-4B561J-	R CARBON FILM 1/4 560 OHM J	1	
R357	RD-4B154J-	R CARBON FILM 1/4 150K OHM J	1	
R358	RD-4B479J-	R CARBON FILM ELR 1/4 4.7 OHM J	1	
00010	DSLC22VR3-	LED RED SLC-22VR3	1	
00030	4717401860	LAMP 14V 20MA O/WIRE	1	
00180	5LC302P502	COIL CHOKE EI-19MM	1	
00200	97T6504500	PCB MAIN XPC 175.2×127.5×1.6T	1	
00300	4712532000	PIN WRAPPING 1-3.2-13	6	
L201	5LL479K501	COIL INDLICTOR 5×10×2.5MM 4.7UH K	1	
L204	5LL479K501	COIL INDUCTOR 5×10×2.5MM 4.7UH K	1	
L203*	5L0221K501	COIL MW OSC 7×7 80PF 790KHZ 1.4220UH	1	
TC203	97T76003K0	TRIMMER TZ03R 600F (60PF)		

REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
T101	5107FBL116	IFT FM B 7×7 BLUE	1	
T201	5115AYW501	IFT AM FILTER CERA 455 KHZ FSN-1067	1	
T202	5107ABK501	IFT AMC 7×7 BLACK Q=90 C=180PF	1	
VR101	RV1419502-	R SEMI FIXED RV8-FOR-5KB	1	
00020	97T65047A0	PCB EQ XPC94HB 29.8×80×1.6T	1	
VR102	RV1419502-	R SEMI FIXED RV8-FOR-5KB	1	
VR301	RV1419502-	R SEMI FIXED RV8-FOR-5KB	1	
L201	5LL479K501	COIL INDUCTOR 5×10×2.5MM 4.7UH K	1	
TC201	97T7605600	TRIMMER 7PIE 70PF	1	
TC202	97T76003K0	TRIMMER TZ03R-600F (60PF)	1	
CF101	5PE107MS3-	FILTER CERA SFE107MS3-A	1	
CF102	5PE107MS3-	FILTER CERA SFE107MS3-A	1	
00030	97T6300900	SOCKET POWER 2P W/WIRE LABEL	1	
00040	97T63010A1	JACK DIN W/WIRE (GREEN)	1	
00050	97T63010B1	JACK DIN W/WIRE (GRAY)	1	
00060	5V2103412A	VR SLIDE S2028G6 10KA×2	1	
00070	5V2503411W	VR SLIDE S2018K6 50KW×1	1	
00050	5V2503410B	VR SLIDE S2028K6 50KB×2	1	
00010	97T6350100	JACK CAR ANT 9.5D 200×10×5×5	1	
00020	97T76007F1	TUNER MANUAL CMC-EE02	1	
00090	97T63001J0	RECEPTACLE ASS'Y FUSE HOLDER+LABEL	1	
00100	97T63001K0	RECEPTACLE ASS'Y 250 TAB ON TERMINAL	1	
00010	5S10102503	SW PUSH IC-2P SPJ312 SELFLOCK	1	
00010	5S10202505	SW PUSH 2C-2P LUG TYPE SELF	1	
00010	CFYA1H102P	C CERA FEED WF-A-50V-1000PF GMV	1	
00030	97T8813900	CONN ASS'Y 2P	1	
00040	97T8814000	CONN ASS'Y 4P	1	
IC101	1KIA7303P-	IC KLA7303P FM4F	1	
IC103	1YY86----	IC YY86 NOISE CANCELLER	1	
IC104	1KIA7343P-	IC KIA7343P FM-MPX	1	
IC301	1KIA7325P-	IC KIA7325P (9 PIN)	1	

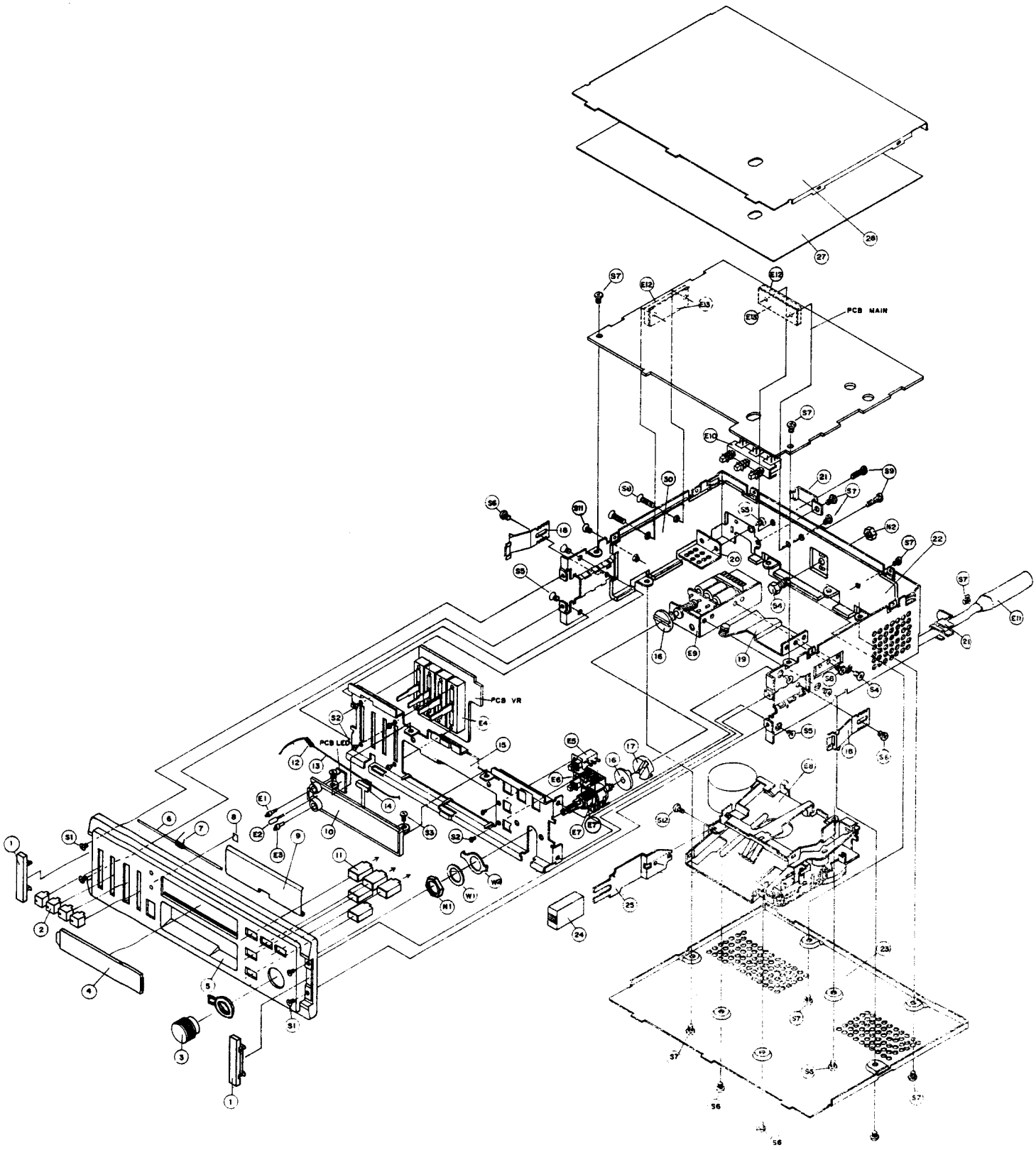
REF.NO	PART NO	DESCRIPTION	Q'TY	REMARK
Q101	TKTC380TM0	TR KTC380TM-O	1	
Q201	TKTC941TM0	TR KTC-941TM-O	1	
Q202	TKTC380TM0	TR KTC380TM-O	1	
Q203	TKTC380TM0	TR KTC380TM-O	1	
Q301	TKTC1815Y-	TR KTC1815-Y	1	
Q302	TKTC1815Y-	TR KTC1815-Y	1	
Q303	TKTC1815Y-	TR KTC1815-Y	1	
D0101	DIN4148---	DIODE 1N4148	1	
D0102	D1N4148---	DIODE 1N4148	1	
D0103	DUZ10B----	DIODE ZENER UZ10B	1	
D0201	D1N60S----	DIODE 1N60S	1	
D0202	D1N4148---	DIODE 1N4148	1	
D0203	D1N60S----	DIODE 1N60S	1	
D0204	D1N60S----	DIODE 1N60S	1	
D0205	D1N4148---	DIODE 1N4148	1	
D0206	D1N4148---	DIODE 1N4148	1	
D0207	DUZ10B----	DIODE ZENER UZ10B	1	
D0301	D1N4148---	DIODE 1N4148	1	
D0302	D1N4148---	DIODE 1N4148	1	
D0301	D1N4148---	DIODE 1N4148	1	
D0305	D1N4148---	DIODE 1N4148	1	
D0306	D1N4001---	DIODE 1N4001	1	
D0307	D1N4001---	DIODE 1N4001	1	

EXPLODED VIEW

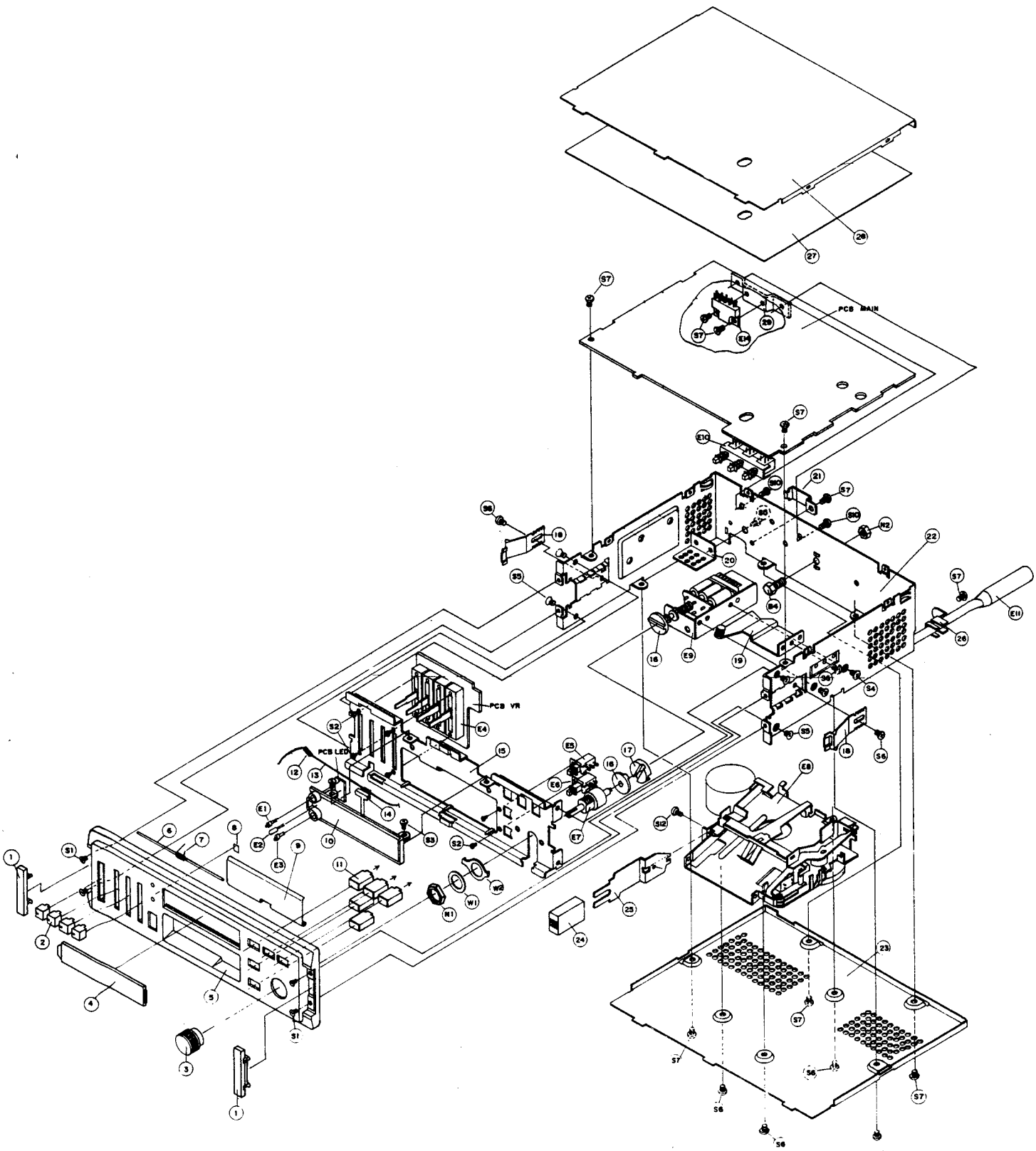
GXR



GXR 215



GXR 216



PARTS LIST FOR EXPLODED VIEW

REF. NO	PART NO	DESCRIPTION	Q'TY				REMARK
			213	214X	215	216X	
1	97T0402210	COVER FIXTURE	2	2	2	2	
2	97T1302310	KNOB SLIDE	4	4	4	4	
3	97T1301110	KNOB ROTARY (F)	1	1	1	1	
4	97T11003E0	DIAL SCALE	1	—	1	—	
(4)	97T11003F0	DIAL SCALE	—	1	—	1	
5	97T14005A0	ESCUTCHEON	1	—	—	—	
(5)	97T14005C0	ESCUTCHEON	—	1	—	—	
(5)	97T14005B0	ESCUTCHEON	—	—	1	—	
(5)	97T14005D0	ESCUTCHEON	—	—	—	1	
6	97T3600810	SHAFT DOOR	1	1	1	1	
7	97T3000610	SPRING DOOR	1	1	1	1	
8	97T0902010	PLATE LAMP	1	1	1	1	
9	97T18004D0	DOOR CASSETTE	1	—	—	—	
(9)	97T18004F0	DOOR CASSETTE	—	1	—	—	
(9)	97T18004E0	DOOR CASSETTE	—	—	1	—	
(9)	97T18004G0	DOOR CASSETTE	—	—	—	1	
10	97T0600610	CHASSIS DIAL	1	1	1	1	
11	97T1301010	KNOB PUSH (P) BK	4	4	4	4	
(11)	97T1301020	KNOB PUSH (P) OR	1	1	1	1	
12	97T3001610	SPRING DIAL	1	1	1	1	
13	2242290004	DIAL CORD 0.4PI	0.5	0.5	0.5	0.5	METER
14	97T1701010	POINTER DIAL	1	1	1	1	
15	97T0603010	CHASSIS FRONT	1	1	1	1	
16	—	COUPLER (A)	2	2	2	2	ACCESSORY OF TUNER
17	—	COUPLER (B)	1	1	1	1	ACCESSORY OF TUNER
18	97T3001710	SPRING SIDE	2	2	2	2	
19	97T2405610	BRACKET TUNER	1	1	1	1	
20	97T2405110	BRACKET CAPACITOR	1	1	1	1	
21	97T2401510	BRACKET CONNECTOR	1	1	1	1	
22	97T0602910	CHASSIS MAIN	1	1	1	1	
23	97T0402410	COVER BOTTOM	1	1	1	1	
24	—	KNOB PUSH (E)	1	1	1	1	
25	—	LEVER EJECT	1	1	1	1	
26	97T5700510	STOPPER CORD	1	1	1	1	
27	97T0901710	PLATE INSULATION	1	1	1	1	
28	97T040210	COVER TOP	1	1	1	1	
29	97T4400510	HEAT SINK	—	—	—	1	
30	97T4400910	HEAT SINK	—	—	1	—	
31	97T1301220	KNOB ROTARY (R)	—	—	1	—	

GXR213/214X/215/216X PART LIST

REF. NO	PART NO	DESCRIPTION	Q'TY				REMARK
			213	214X	215	216X	
S1	7005260411	SCREW M-FLT 2.6×4	4	4	4	4	
S2	7001200311	SCREW M-PAN 2×3	6	6	6	6	
S3	97T3101610	SCREW M-CLR 2.6×5	2	2	2	2	
S4	7005300411	SCREW M-FLT 3×4	2	2	2	2	
S5	7005300511	SCREW M-FLT 3×5	5	5	5	5	
S6	7003300411	SCREW M-BIN 3×4	6	6	6	6	
S7	7273300511	SCREW TT-BIN 3×5	7	7	7	7	
S8	7005301011	SCREW M-FLT 3×10	2	2	—	—	
(S8)	7005301211	SCREW M-FLT 3×12	—	—	2	—	
S9	7003301211	SCREW M-BIN 3×12	—	—	2	—	
S10	7003300611	SCREW M-BIN 3×6	—	—	—	2	
S11	7275300611	SCREW TT-FLT 3×6	—	—	1	—	
S12	7053260411	SCREW M-BIN 2.6×4SW	—	—	—	1	
E1	DKLR226E--	LED, RED	1	1	1	1	
E2	97T82003E0	LAMP	1	1	1	1	
E3	DKLG226E--	LED, GREEN	1	—	1	—	
(E3)	DKLY226E--	LED, YELLOW	—	1	—	1	
E4		PCB VR AS	(1)	(1)	(1)	(1)	
	5V2103412A	VR SLIDE	1	1	1	1	
	5V2503411W	VR SLIDE	1	1	1	1	
	5V2503410B	VR SLIDE	2	2	2	2	
E5	5S40102503	SW PUSH	1	1	1	1	
E6	5S40202553	SW PUSH	1	1	1	1	
E7	97T3600310	SHAFT TUNING	1	1	—	1	
(E7)	5V1B00413B	VR FADER	—	—	1	—	
E8	97T6000P00	DECK MECHANISM	1	1	1	1	
E9	97T76007F0	TUNER MANUAL	1	1	1	1	
E10	5S40202530	SW PUSH	1	—	1	—	
(E10)	5S40202545	SW PUSH	—	1	—	1	
E11	97T6350100	JACK ANTENNA	1	1	1	1	
E12	1UPC1185H2	IC POWER	1	1	—	—	
	1UPC1230H2	IC POWER	—	—	2	—	
E13	97T2402P10	BRACKET IC	1	1	2	—	
E14	1TA7270P--	IC POWER	—	—	—	1	

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